

## **Appendix C**

Air Quality and GHG Calculations

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## C1 – Southern California Edison Air and GHG Calculations

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**Table 1.3 - Summary of Maximum Daily Emissions from Project Construction**

Year	Proposed Project Component	Maximum Daily Emissions (lbs/day)*			
		ROG	NOx	PM10	PM2.5
2015	66-kV Subtransmission Line	94.25	849.94	275.30	59.18
	Substations	3.93	44.25	25.13	4.22
	<b>Total 2015</b>	<b>98.18</b>	<b>894.19</b>	<b>300.44</b>	<b>63.40</b>
2016	66-kV Subtransmission Line	3.75	41.56	22.32	3.74
	Substations	0.44	4.40	4.63	0.63
	<b>Total 2016</b>	<b>4.18</b>	<b>45.96</b>	<b>26.95</b>	<b>4.37</b>

**Notes:**

**(\*) Correspond to "Total Mitigated Emissions" or emissions with Implementation of APMs**

1. Concurrent emissions based on the applicant's estimate of the construction activities schedule and expected sequencing of activities in 2015 and 2016
2. Emissions estimates for 66-kV Subtransmission Line Construction include onsite, offsite, and helicopter emissions from: subtransmission construction, J-Tower I
3. The applicant estimated helicopter emissions based on the emission factors methodology (See Tabs 5 and 6 of this Workbook)

## 2. Greenhouse Gas Emissions

Table 2.1 GHG Annual Emissions (CalEEMod Annual Results June 2014)

Activity Name		2015 GHG Emissions (MTCO2e)			2016 GHG Emissions (MTCO2e)		
		Onsite	Offsite	Total	Onsite	Offsite	Total
Subtransmission Lines	Survey	0	2	2	0	0	0
	Material Staging Yards	300	38	338	171	5	176
	Tree Trimming	16	0	16	0	0	0
	R/W Clearing	39	1	39	0	0	0
	Roads and Landing Work	74	3	77	0	0	0
	Guard Structure Installation	23	1	24	0	0	0
	Remove Existing Conductor	174	7	181	0	0	0
	Install TSP Foundation	219	21	240	0	0	0
	TSP Haul	76	5	80	0	0	0
	Install Conductor	345	11	356	0	0	0
	TSP Assembly	88	12	100	0	0	0
	TSP Erection	81	18	100	0	0	0
	LST Removal	134	19	154	82	12	94
	LST Foundation Removal	78	3	80	0	0	0
	Wood Pole Removal	11	0	12	0	0	0
	LWS Pole Haul	0	0	0	4	0	4
	LWS Pole Assembly	0	0	0	5	1	6
	Install LWS Pole	0	0	0	5	0	5
	Install PRGW&FRC	0	0	0	159	3	163
	Guard Structure Removal	0	0	0	10	3	12
	Duct Bank Installation	0	0	0	8	0	8
UG Cable Installation	0	0	0	3	0	3	
Restoration	0	0	0	22	2	25	
Retaining Wall Structures	1536	108	1643	65	5	70	
<b>TOTAL SUBTRANSMISSION LINES</b>	<b>3192</b>	<b>250</b>	<b>3442</b>	<b>533</b>	<b>31</b>	<b>564</b>	
Substations	Carpinteria Civil	11	1	12	0	0	0
	Carpinteria Electrical	92	10	102	0	0	0
	Carpinteria Maintenance	17	1	18	0	0	0
	Carpinteria Test	0	0	0	7	1	8
	Santa Clara Civil	6	0	6	0	0	0
	Santa Clara Electrical	37	4	41	0	0	0
	Santa Clara Maintenance	15	1	16	0	0	0
	Santa Clara Test	4	0	4	1	0	1
	Casitas Civil	11	1	12	0	0	0
	Casitas Electrical	27	3	30	0	0	0
	Goleta Electrical	0	0	0	2	0	2
	Goleta Test	0	0	0	2	0	2
	Santa Barbara Electrical	0	0	0	2	0	2
	Santa Barbara Test	0	0	0	2	0	2
	Ortega Electrical	0	0	0	1	0	1
	Ortega Test	0	0	0	1	0	1
<b>TOTAL SUBSTATIONS</b>	<b>220</b>	<b>21</b>	<b>241</b>	<b>17</b>	<b>3</b>	<b>19</b>	
J-Tower Install	Site 132 Brushing, Roads & Landing Work	1	0	1	0	0	0
	Site 132 LST Removal	2	0	3	0	0	0
	Site 132 Install J-Tower Footings	12	0	12	0	0	0
	Site 132 J-Tower Assembly & Erection	7	1	7	0	0	0
	Site 128 Brushing, Roads & Landing Work	7	0	7	0	0	0
	Site 128 LST Removal	2	0	3	0	0	0
	Site 128 Install J-Tower Footings	6	0	6	0	0	0
	Site 128 J-Tower Assembly & Erection	7	1	7	0	0	0
	Site 99 Install J-Tower Foundations	5	0	5	0	0	0
	Site 99 J-Tower Assembly & Erection	2	0	2	0	0	0
	Site 97 Install J-Tower Foundations	4	0	4	0	0	0
	Site 97 J-Tower Assembly & Erection	5	1	6	0	0	0
	<b>TOTAL J-TOWER INSTALLATION</b>	<b>60</b>	<b>5</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Seg 4	Segment 4 Remove Existing Conductor & GW	22	1	23	0	0
Segment 4 LST Removal		8	1	9	0	0	0
Segment 4 LST Foundation Removal		4	0	4	0	0	0
<b>TOTAL SEGMENT 4 REMOVAL</b>		<b>34</b>	<b>2</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL GHG EMISSIONS</b>		<b>3506</b>	<b>277</b>	<b>3783</b>	<b>550</b>	<b>33</b>	<b>583</b>

Source: SCE June 2014

**Table 2.2 Helicopter GHG Emissions (Year 2015)**

Activity Name		GHG Emissions (MTCO <sub>2</sub> e)
<b>J-Tower Install</b>	Site 132 LST Removal	8
	Site 132 Install J-Tower Footings	6
	Site 132 J-Tower Assembly & Erection	4
	Site 128 LST Removal	8
	Site 128 J-Tower Assembly & Erection	4
	Site 99 J-Tower Assembly & Erection	4
	Site 97 J-Tower Assembly & Erection	4
	<b>TOTAL J-TOWER INSTALLATION (HELICOPTERS)</b>	<b>39</b>

Source: SCE May 2014

**Table 2.3 Project-specific Construction Emissions**

Year	Proposed Project Component	Annual GHG Emissions
2015	66-kV Subtransmission Line	3,581
	Substations	241
	<b>Total 2015</b>	<b>3,822</b>
2016	66-kV Subtransmission Line	564
	Substations	19
	<b>Total 2016</b>	<b>583</b>
<b>TOTAL GHG EMISSIONS FROM CONSTRUCTION</b>		<b>4,406</b>

## Santa Barbara County Reliability Project Ventura County, Annual

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.00	User Defined Unit	0.00	0.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2016
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - power lines. no operational vehicle trips

Construction Phase - based on client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - site info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info



Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - (1) 4x4 truck 300 hp; (1) compressor trailer 60 hp; (1) manlift/bucket truck 250 hp; (1) boom/crane truck 350 hp; (1) auger truck 210 hp; (1) extendable flat bed pole truck 400 hp

Off-road Equipment - (4) 4x4 truck; (4) manlift/bucket truck 250 hp; (2) boom/crane truck 350 hp; (1) dump truck 350 hp; (2) water truck 300 hp; (2) auger truck 210 hp; (1) extendable flat bed pole truck 400 hp

Off-road Equipment - site info

Off-road Equipment - site info

Off-road Equipment - site info

Off-road Equipment - site info

Off-road Equipment - (1) manlift/bucket truck 250 hp; (1) boom/crane truck 350 hp; (1) auger truck 210 hp; (1) backhoe/front loader 125 hp; (1) extendable flat bed pole truck 400 hp

Off-road Equipment - (4) 4x4 truck 300 hp; (4) manlift 250 hp; (2) crane truck 350 hp; (1) dump truck 350 hp; (2) water truck 300 hp; (2) wire truck 350 hp; (1) sl puller 300 hp; (1) bw puller 350 hp; (1) static truck 350 hp; (1) loader 125 hp; (2) lowboy truck 450 hp

Off-road Equipment - same as install conductor

Off-road Equipment - (1) boom/crane truck 350 hp; (1) backhoe/front loader 125 hp; (1) auger truck 210 hp; (1) water truck 300 hp; (1) dump truck 350 hp; (3) concrete mixer truck 350 hp

Off-road Equipment - (1) compressor trailer 60 hp; (1) Backhoe/front loader; (1) dump truck 350 hp; (1) excavator 250 hp

Off-road Equipment - (1) compressor trailer 60 hp; (1) R/T crane 215 hp; (1) boom/crane truck 350 hp; (1) flat bed truck/trailer 400 hp

Off-road Equipment - (1) compressor trailer 60 hp; (1) boom/crane truck 350 hp

Off-road Equipment - (1) boom/crane truck 350 hp; (1) flat bed pole truck 400 hp

Off-road Equipment - (1) R/T Forklift 125 hp; (1) Boom/Crane Truck 350 hp; (1) Semi Tractor Truck 400 hp

Off-road Equipment - 1 diesel 4x4 truck; 1 R/T forklift; 1 boom/crane truck; 1 water truck; 1 semi tractor truck

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - (1) Backhoe/Front loader 125 hp; (1) Track type dozer 150 hp; (1) motor grader 250 hp; (1) lowboy truck/trailer 450 hp; (1) 4x4 truck 300 hp; (1) water truck 300 hp

Off-road Equipment - (4) 4x4 trucks; (4) manlift/bucket truck 250 hp; (2) boom/crane truck 350 hp; (1) bull whell puller 350 hp; (1) sock line puller 300 hp; (2) water truck 300 hp; (1) static truck/tensioner 350 hp; (2) lowboy truck/trailer

Off-road Equipment - (1) backhoe/front loader 125 hp; (1) grader 250 hp; (1) drum type compactor 100 hp; (1) lowboy truck/trailer 450 hp

Off-road Equipment - client info

Off-road Equipment - (2) 4x4 truck 300 hp; (1) brusher 110 hp; (1) chipper 50 hp; (1) loader 125 hp; (1) track type dozer 150 hp; (1) motor grader 250 hp; (2) water truck 300 hp; (1) compactor 100 hp; (1) excavator 250 hp; (1) lowboy truck 450 hp

Off-road Equipment - site info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

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Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - No diesel equipment

Off-road Equipment - 1 dump truck; 1 truck; 1 chipper

Off-road Equipment - (2) 4x4 truck; (1) compressor trailer 60 hp; (1) boom/crane truck 350 hp

Off-road Equipment - (1) 4x4 truck; (1) Compressor Trailer 60 hp; (1) boom/crane truck 350 hp

Off-road Equipment - (1) boom/crane truck 350 hp; (1) flat bed pole truck 400 hp

Off-road Equipment - (1) bucket truck 250 hp; (1) crane truck 350 hp; (2) wire truck 350 hp; (1) puller 350 hp; (1) static truck 350 hp

Off-road Equipment - (2) 4x4 truck 300 hp; (1) compressor trailer 60 hp; (1) manlift/bucket truck 250 hp; (1) boom/crane truck 350 hp; (1) flat bed pole truck 400 hp

Off-road Equipment - site info

Trips and VMT - based on client info - vendor truck represents construction 4x4 truck. Assumes truck travels 10 miles per hour.

On-road Fugitive Dust - site info

Demolition -

Grading - site info

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - APMs

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	75	250
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	16
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	FuelType	Diesel	Bio-diesel
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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tblGrading	AcresOfGrading	7.50	45.00
tblGrading	AcresOfGrading	10.50	78.75
tblGrading	AcresOfGrading	7.00	8.25
tblGrading	AcresOfGrading	0.00	7.00
tblGrading	AcresOfGrading	0.25	1.20
tblGrading	AcresOfGrading	0.00	22.00
tblGrading	AcresOfGrading	0.00	44.50
tblGrading	AcresOfGrading	0.00	44.50
tblGrading	AcresOfGrading	0.00	15.00
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tblGrading	AcresOfGrading	0.00	2.00
tblGrading	AcresOfGrading	2.00	1.16
tblGrading	AcresOfGrading	0.00	10.50
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	6.38	1.13

tblGrading	AcresOfGrading	2.00	1.00
tblGrading	AcresOfGrading	0.00	8.50
tblGrading	AcresOfGrading	0.00	60.00
tblGrading	MaterialExported	0.00	510.00
tblGrading	MaterialImported	0.00	3,287.00
tblGrading	MaterialImported	0.00	484.00
tblGrading	MaterialImported	0.00	343.00
tblGrading	MaterialImported	0.00	186.00
tblGrading	MaterialImported	0.00	141.00
tblGrading	MaterialImported	0.00	468.00
tblGrading	MaterialImported	0.00	403.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	226.00	350.00
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tblOffRoadEquipment	HorsePower	226.00	350.00
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tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	250.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	162.00

tblOffRoadEquipment	HorsePower	174.00	162.00
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tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	162.00
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tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	250.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	250.00
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tblOffRoadEquipment	HorsePower	174.00	162.00
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tblOffRoadEquipment	HorsePower	97.00	125.00
tblOffRoadEquipment	HorsePower	97.00	125.00
tblOffRoadEquipment	HorsePower	97.00	125.00
tblOffRoadEquipment	HorsePower	97.00	75.00





tblOffRoadEquipment	HorsePower	205.00	305.00
tblOffRoadEquipment	HorsePower	205.00	85.00
tblOffRoadEquipment	HorsePower	205.00	85.00
tblOffRoadEquipment	HorsePower	205.00	85.00
tblOffRoadEquipment	HorsePower	205.00	210.00
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tblOffRoadEquipment	HorsePower	9.00	350.00
tblOffRoadEquipment	HorsePower	9.00	350.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	226.00	180.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	226.00	180.00
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tblOffRoadEquipment	HorsePower	226.00	180.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	226.00	350.00
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tblOffRoadEquipment	HorsePower	226.00	180.00
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tblOffRoadEquipment	HorsePower	89.00	125.00
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tblOffRoadEquipment	HorsePower	400.00	450.00
tblOffRoadEquipment	HorsePower	400.00	300.00
tblOffRoadEquipment	HorsePower	400.00	380.00
tblOffRoadEquipment	HorsePower	400.00	300.00



tblOffRoadEquipment	HorsePower	400.00	450.00
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tblOffRoadEquipment	HorsePower	400.00	350.00
tblOffRoadEquipment	HorsePower	400.00	300.00
tblOffRoadEquipment	HorsePower	400.00	180.00
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tblOffRoadEquipment	HorsePower	400.00	450.00
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tblOffRoadEquipment	HorsePower	400.00	300.00
tblOffRoadEquipment	HorsePower	400.00	350.00



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tblOffRoadEquipment	HorsePower	400.00	250.00
tblOffRoadEquipment	HorsePower	400.00	350.00
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tblOffRoadEquipment	HorsePower	400.00	459.00
tblOffRoadEquipment	HorsePower	400.00	450.00

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tblOffRoadEquipment	HorsePower	400.00	300.00
tblOffRoadEquipment	HorsePower	171.00	110.00
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tblOffRoadEquipment	HorsePower	8.00	100.00
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tblOffRoadEquipment	HorsePower	255.00	150.00
tblOffRoadEquipment	HorsePower	255.00	150.00





tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	6.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00



tblOffRoadEquipment	UsageHours	8.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00

















tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	60.00
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tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	80.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	80.00
tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
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tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00





tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripNumber	18.00	34.00
tblTripsAndVMT	WorkerTripNumber	13.00	6.00
tblTripsAndVMT	WorkerTripNumber	25.00	10.00
tblTripsAndVMT	WorkerTripNumber	70.00	60.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblTripsAndVMT	WorkerTripNumber	38.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	28.00	22.00
tblTripsAndVMT	WorkerTripNumber	23.00	14.00
tblTripsAndVMT	WorkerTripNumber	50.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	28.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	18.00	8.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00
tblTripsAndVMT	WorkerTripNumber	63.00	40.00
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tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	40.00
tblTripsAndVMT	WorkerTripNumber	18.00	26.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00

tblTripsAndVMT	WorkerTripNumber	25.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	16.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
tblTripsAndVMT	WorkerTripNumber	25.00	12.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	25.00	12.00
tblTripsAndVMT	WorkerTripNumber	10.00	22.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	12.00
tblTripsAndVMT	WorkerTripNumber	18.00	24.00
tblTripsAndVMT	WorkerTripNumber	20.00	24.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	22.00
tblTripsAndVMT	WorkerTripNumber	8.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	8.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	12.00

tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblTripsAndVMT	WorkerTripNumber	58.00	40.00
tblTripsAndVMT	WorkerTripNumber	43.00	12.00
tblTripsAndVMT	WorkerTripNumber	33.00	12.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	20.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblTripsAndVMT	WorkerTripNumber	18.00	8.00





**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Carpinteria Material Yards	Site Preparation	1/5/2015	1/22/2015	5	14	
2	Y Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
3	Hwy 150A Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
4	Hwy 150B Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
5	Hwy 150C Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
6	Hwy 150D Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
7	Santa Ana Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
8	Survey	Site Preparation	1/5/2015	1/27/2015	5	17	Subtransmission Activity1
9	Material Staging Yards	Site Preparation	1/28/2015	8/18/2016	5	407	Subtransmission Activity2
10	Tree Trimming	Site Preparation	1/28/2015	2/16/2015	5	14	Subtransmission Activity3
11	R/W Clearing	Grading	2/17/2015	3/16/2015	5	20	Subtransmission Activity4
12	Retaining Wall Structures	Site Preparation	3/13/2015	1/13/2016	5	150	Retaining Wall
13	Carpinteria Civil	Trenching	3/16/2015	3/29/2015	5	10	Substation Activity1
14	Santa Clara Civil	Trenching	3/16/2015	4/4/2015	5	14	Substation Activity5
15	Roads and Landing Work	Grading	3/17/2015	4/23/2015	5	28	Subtransmission Activity5
16	Guard Structure Installation	Building Construction	3/17/2015	4/1/2015	5	12	Subtransmission Activity6
17	Carpinteria Electrical	Site Preparation	3/30/2015	9/13/2015	5	120	Substation Activity2
18	Santa Clara Electrical	Site Preparation	4/5/2015	7/11/2015	5	70	Substation Activity6
19	Remove Existing Conductor	Trenching	5/5/2015	6/17/2015	5	32	Subtransmission Activity7
20	Install TSP foundation	Building Construction	5/11/2015	12/31/2015	5	169	Subtransmission Activity8
21	TSP Haul	Site Preparation	5/14/2015	7/15/2015	5	45	Subtransmission Activity9
22	Casitas Civil	Trenching	5/14/2015	5/27/2015	5	10	Substation Activity9
23	Install Conductor	Site Preparation	5/16/2015	7/14/2015	5	44	Subtransmission Activity10
24	TSP Assembly	Site Preparation	5/18/2015	9/17/2015	5	89	Subtransmission Activity11
25	TSP Erection	Site Preparation	5/21/2015	9/16/2015	5	85	Subtransmission Activity12

26	Casitas Electrical	Site Preparation	5/28/2015	8/5/2015	5	50	Substation Activity10
27	LST Removal	Site Preparation	6/18/2015	5/2/2016	5	228	Subtransmission Activity13
28	LST Foundation Removal	Demolition	6/25/2015	10/26/2015	5	88	Subtransmission Activity14
29	Seg4 Remove Existing Conductor & GW	Demolition	6/25/2015	6/30/2015	5	4	Seg 4 Remove Activity1
30	Site 132 Brushing, Roads & Landing Work	Site Preparation	6/25/2015	6/25/2015	5	1	Seg 4 Activity 01
31	Site 128 Brushing, Roads & Landing Work	Site Preparation	6/25/2015	6/29/2015	5	3	Seg 4 Activity 05
32	Site 99 Install J-Tower Foundations	Site Preparation	6/25/2015	6/27/2015	5	3	Seg 4 Activity 09
33	Site 97 Install J-Tower Footings	Site Preparation	6/25/2015	6/27/2015	5	3	Seg 4 Activity 11
34	Site 132 LST Removal	Site Preparation	6/26/2015	6/29/2015	5	2	Seg 4 Activity 02
35	Site 99 J-Tower Assembly & Erection	Site Preparation	6/28/2015	6/29/2015	5	1	Seg 4 Activity 10
36	Site 97 J-Tower Assembly & Erection	Site Preparation	6/28/2015	7/1/2015	5	3	Seg 4 Activity 12
37	Site 132 Install J-Tower Footings	Site Preparation	6/30/2015	7/2/2015	5	3	Seg 4 Activity 03
38	Site 128 LST Removal	Site Preparation	6/30/2015	7/1/2015	5	2	Seg 4 Activity 06
39	Wood Pole Removal	Site Preparation	7/1/2015	7/6/2015	5	4	Subtransmission Activity15
40	Seg 4 LST Removal	Site Preparation	7/1/2015	7/10/2015	5	8	Seg 4 Remove Activity2
41	Site 128 Install J-Tower Footings	Site Preparation	7/2/2015	7/6/2015	5	3	Seg 4 Activity 07
42	Site 132 J-Tower Assembly & Erection	Site Preparation	7/3/2015	7/7/2015	5	3	Seg 4 Activity 04
43	Site 128 J-Tower Assembly & Erection	Site Preparation	7/7/2015	7/9/2015	5	3	Seg 4 Activity 08
44	Seg 4 LST Foundation Removal	Demolition	7/11/2015	7/16/2015	5	4	Seg 4 Remove Activity3
45	Santa Clara Maintenance	Site Preparation	7/12/2015	10/17/2015	5	70	Substation Activity7
46	Casitas Maintenece	Site Preparation	8/6/2015	10/14/2015	5	50	Substation Activity11
47	Carpinteria Maintenance	Site Preparation	9/14/2015	1/3/2016	5	80	Substation Activity3
48	Casitas Test	Site Preparation	10/15/2015	12/23/2015	5	50	Substation Activity12
49	Santa Clara Test	Site Preparation	10/18/2015	1/23/2016	5	70	Substation Activity8
50	Carpinteria Test	Site Preparation	1/4/2016	5/22/2016	5	100	Substation Activity4
51	Golita Electrical	Site Preparation	1/24/2016	2/27/2016	5	25	Substation Activity13
52	Santa Barbara Electrical	Site Preparation	2/22/2016	3/25/2016	5	25	Substation Activity15
53	Golita Test	Site Preparation	2/28/2016	4/2/2016	5	25	Substation Activity14
54	Santa Barbara Test	Site Preparation	3/28/2016	5/1/2016	5	25	Substation Activity16
55	Ortega Electrical	Site Preparation	4/3/2016	4/16/2016	5	10	Substation Activity17
56	Ortega Test	Site Preparation	4/17/2016	4/30/2016	5	10	Substation Activity18

57	LWS Pole Haul	Site Preparation	5/24/2016	5/29/2016	5	4	Subtransmission Activity16
58	LWS Pole Assembly	Site Preparation	5/30/2016	6/2/2016	5	4	Subtransmission Activity17
59	Instal LWS Pole	Site Preparation	6/5/2016	6/8/2016	5	4	Subtransmission Activity18
60	Install PRGW&FRC	Site Preparation	6/9/2016	7/9/2016	5	21	Subtransmission Activity19
61	Guard Structure Removal	Demolition	7/10/2016	7/20/2016	5	9	Subtransmission Activity20
62	Duct Bank Installation	Site Preparation	7/21/2016	7/25/2016	5	3	Subtransmission Activity21
63	UG Cable Installation	Site Preparation	7/26/2016	7/26/2016	5	1	Subtransmission Activity22
64	Restoration	Site Preparation	7/27/2016	8/20/2016	5	17	Subtransmission Activity23

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Carpinteria Material Yards	Bore/Drill Rigs	1	6.00	85	0.50
Carpinteria Material Yards	Graders	0	8.00	174	0.41
Carpinteria Material Yards	Graders	1	8.00	250	0.41
Carpinteria Material Yards	Off-Highway Trucks	1	2.00	450	0.38
Carpinteria Material Yards	Off-Highway Trucks	1	8.00	300	0.38
Carpinteria Material Yards	Plate Compactors	1	8.00	100	0.43
Carpinteria Material Yards	Rubber Tired Dozers	1	8.00	150	0.40
Carpinteria Material Yards	Rubber Tired Loaders	1	8.00	250	0.36
Carpinteria Material Yards	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Y Material Yard	Bore/Drill Rigs	1	2.00	85	0.50
Y Material Yard	Graders	0	8.00	174	0.41
Y Material Yard	Graders	1	1.00	250	0.41
Y Material Yard	Off-Highway Trucks	1	2.00	450	0.38
Y Material Yard	Off-Highway Trucks	1	4.00	300	0.38
Y Material Yard	Plate Compactors	1	1.00	100	0.43
Y Material Yard	Rubber Tired Dozers	1	1.00	150	0.40
Y Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hwy 150A Material Yard	Bore/Drill Rigs	1	2.00	85	0.50
Hwy 150A Material Yard	Graders	0	8.00	174	0.41
Hwy 150A Material Yard	Graders	1	1.00	250	0.41
Hwy 150A Material Yard	Off-Highway Trucks	1	2.00	450	0.38
Hwy 150A Material Yard	Off-Highway Trucks	1	4.00	300	0.38
Hwy 150A Material Yard	Plate Compactors	1	1.00	100	0.43
Hwy 150A Material Yard	Rubber Tired Dozers	1	1.00	150	0.40
Hwy 150A Material Yard	Rubber Tired Loaders	1	8.00	250	0.36
Hwy 150A Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hwy 150B Material Yard	Bore/Drill Rigs	1	2.00	85	0.50
Hwy 150B Material Yard	Graders	0	8.00	174	0.41

Hwy 150B Material Yard	Off-Highway Trucks	1	4.00	300	0.38
Hwy 150B Material Yard	Plate Compactors	1	2.00	100	0.43
Hwy 150B Material Yard	Rubber Tired Dozers	1	2.00	150	0.40
Hwy 150B Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hwy 150C Material Yard	Bore/Drill Rigs	1	2.00	85	0.50
Hwy 150C Material Yard	Graders	0	8.00	174	0.41
Hwy 150C Material Yard	Off-Highway Trucks	1	4.00	300	0.38
Hwy 150C Material Yard	Plate Compactors	1	2.00	100	0.43
Hwy 150C Material Yard	Rubber Tired Dozers	1	2.00	150	0.40
Hwy 150C Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hwy 150D Material Yard	Bore/Drill Rigs	1	6.00	85	0.50
Hwy 150D Material Yard	Graders	0	8.00	174	0.41
Hwy 150D Material Yard	Graders	1	8.00	250	0.41
Hwy 150D Material Yard	Off-Highway Trucks	1	2.00	450	0.38
Hwy 150D Material Yard	Off-Highway Trucks	1	8.00	300	0.38
Hwy 150D Material Yard	Plate Compactors	1	8.00	100	0.43
Hwy 150D Material Yard	Rubber Tired Dozers	1	8.00	150	0.40
Hwy 150D Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Santa Ana Material Yard	Bore/Drill Rigs	1	6.00	85	0.50
Santa Ana Material Yard	Graders	0	8.00	174	0.41
Santa Ana Material Yard	Graders	1	8.00	250	0.41
Santa Ana Material Yard	Off-Highway Trucks	1	2.00	450	0.38
Santa Ana Material Yard	Off-Highway Trucks	1	8.00	300	0.38
Santa Ana Material Yard	Plate Compactors	1	8.00	100	0.43
Santa Ana Material Yard	Rubber Tired Dozers	1	8.00	150	0.40
Santa Ana Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Survey	Graders	1	0.00	162	0.41
Survey	Off-Highway Trucks	1	0.00	300	0.38
Survey	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Material Staging Yards	Cranes	1	2.00	350	0.29
Material Staging Yards	Forklifts	1	6.00	125	0.20

Material Staging Yards	Graders	1	0.00	162	0.41
Material Staging Yards	Off-Highway Trucks	1	4.00	300	0.38
Material Staging Yards	Off-Highway Trucks	1	8.00	300	0.38
Material Staging Yards	Off-Highway Trucks	1	2.00	400	0.38
Material Staging Yards	Tractors/Loaders/Backhoes	1	0.00	160	0.37
Tree Trimming	Graders	1	0.00	162	0.41
Tree Trimming	Off-Highway Trucks	1	8.00	380	0.38
Tree Trimming	Off-Highway Trucks	1	8.00	300	0.38
Tree Trimming	Other General Industrial Equipment	1	4.00	50	0.34
Tree Trimming	Tractors/Loaders/Backhoes	1	0.00	75	0.37
R/W Clearing	Concrete/Industrial Saws	1	0.00	81	0.73
R/W Clearing	Cranes	1	0.00	350	0.29
R/W Clearing	Forklifts	1	0.00	125	0.20
R/W Clearing	Graders	1	6.00	250	0.41
R/W Clearing	Off-Highway Trucks	1	4.00	450	0.38
R/W Clearing	Off-Highway Trucks	1	8.00	300	0.38
R/W Clearing	Off-Highway Trucks	1	8.00	300	0.38
R/W Clearing	Rubber Tired Dozers	1	0.00	358	0.40
R/W Clearing	Tractors/Loaders/Backhoes	1	6.00	125	0.37
R/W Clearing	Tractors/Loaders/Backhoes	1	6.00	150	0.37
Retaining Wall Structures	Excavators	5	4.00	70	0.38
Retaining Wall Structures	Graders	0	8.00	174	0.41
Retaining Wall Structures	Off-Highway Trucks	6	4.00	300	0.38
Retaining Wall Structures	Off-Highway Trucks	5	6.00	350	0.38
Retaining Wall Structures	Off-Highway Trucks	5	8.00	300	0.38
Retaining Wall Structures	Off-Highway Trucks	2	4.00	450	0.38
Retaining Wall Structures	Tractors/Loaders/Backhoes	5	4.00	125	0.37
Carpinteria Civil	Bore/Drill Rigs	1	6.00	305	0.50
Carpinteria Civil	Cranes	1	4.00	180	0.29
Carpinteria Civil	Forklifts	1	2.00	75	0.20
Carpinteria Civil	Graders	1	0.00	162	0.41



Carpinteria Civil	Off-Highway Trucks	2	2.00	180	0.38
Carpinteria Civil	Off-Highway Trucks	1	6.00	180	0.38
Carpinteria Civil	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Carpinteria Civil	Tractors/Loaders/Backhoes	1	6.00	85	0.37
Carpinteria Civil	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Santa Clara Civil	Forklifts	1	2.00	75	0.20
Santa Clara Civil	Graders	1	0.00	162	0.41
Santa Clara Civil	Off-Highway Trucks	1	2.00	180	0.38
Santa Clara Civil	Off-Highway Trucks	1	6.00	180	0.38
Santa Clara Civil	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Clara Civil	Tractors/Loaders/Backhoes	1	6.00	85	0.37
Roads and Landing Work	Concrete/Industrial Saws	1	0.00	81	0.73
Roads and Landing Work	Cranes	1	2.00	350	0.29
Roads and Landing Work	Excavators	1	4.00	250	0.38
Roads and Landing Work	Forklifts	1	6.00	125	0.20
Roads and Landing Work	Graders	1	6.00	250	0.41
Roads and Landing Work	Off-Highway Trucks	1	4.00	450	0.38
Roads and Landing Work	Off-Highway Trucks	1	2.00	400	0.38
Roads and Landing Work	Off-Highway Trucks	2	8.00	300	0.38
Roads and Landing Work	Other Construction Equipment	1	8.00	110	0.42
Roads and Landing Work	Other General Industrial Equipment	1	8.00	50	0.34
Roads and Landing Work	Plate Compactors	1	6.00	100	0.43
Roads and Landing Work	Rubber Tired Dozers	1	0.00	358	0.40
Roads and Landing Work	Tractors/Loaders/Backhoes	1	4.00	125	0.37
Roads and Landing Work	Tractors/Loaders/Backhoes	1	4.00	150	0.37
Guard Structure Installation	Air Compressors	1	4.00	60	0.48
Guard Structure Installation	Bore/Drill Rigs	1	4.00	210	0.50
Guard Structure Installation	Cranes	1	6.00	350	0.29
Guard Structure Installation	Cranes	1	0.00	350	0.29
Guard Structure Installation	Forklifts	1	0.00	125	0.20
Guard Structure Installation	Off-Highway Trucks	1	4.00	250	0.38

Guard Structure Installation	Off-Highway Trucks	1	8.00	400	0.38
Guard Structure Installation	Off-Highway Trucks	1	0.00	400	0.38
Guard Structure Installation	Off-Highway Trucks	1	8.00	300	0.38
Guard Structure Installation	Tractors/Loaders/Backhoes	2	0.00	75	0.37
Carpinteria Electrical	Aerial Lifts	2	6.00	75	0.31
Carpinteria Electrical	Cranes	1	4.00	180	0.29
Carpinteria Electrical	Cranes	1	6.00	250	0.29
Carpinteria Electrical	Forklifts	1	2.00	75	0.20
Carpinteria Electrical	Graders	1	0.00	162	0.41
Carpinteria Electrical	Off-Highway Trucks	1	2.00	180	0.38
Carpinteria Electrical	Off-Highway Trucks	1	2.00	180	0.38
Carpinteria Electrical	Off-Highway Trucks	2	2.00	180	0.38
Carpinteria Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Clara Electrical	Aerial Lifts	2	6.00	75	0.31
Santa Clara Electrical	Cranes	1	6.00	180	0.29
Santa Clara Electrical	Forklifts	1	2.00	75	0.20
Santa Clara Electrical	Graders	1	0.00	162	0.41
Santa Clara Electrical	Off-Highway Trucks	1	2.00	180	0.38
Santa Clara Electrical	Off-Highway Trucks	2	2.00	180	0.38
Santa Clara Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Remove Existing Conductor	Cranes	2	8.00	350	0.29
Remove Existing Conductor	Cranes	1	0.00	350	0.29
Remove Existing Conductor	Forklifts	1	0.00	125	0.20
Remove Existing Conductor	Off-Highway Trucks	4	8.00	250	0.38
Remove Existing Conductor	Off-Highway Trucks	1	1.00	350	0.38
Remove Existing Conductor	Off-Highway Trucks	2	4.00	450	0.38
Remove Existing Conductor	Off-Highway Trucks	1	0.00	400	0.38
Remove Existing Conductor	Off-Highway Trucks	4	4.00	300	0.38
Remove Existing Conductor	Off-Highway Trucks	2	4.00	300	0.38
Remove Existing Conductor	Other Construction Equipment	1	6.00	350	0.42
Remove Existing Conductor	Other Construction Equipment	1	6.00	300	0.42

Install TSP foundation	Bore/Drill Rigs	1	6.00	125	0.50
Install TSP foundation	Cement and Mortar Mixers	3	2.00	350	0.56
Install TSP foundation	Cranes	1	0.00	350	0.29
Install TSP foundation	Cranes	1	4.00	350	0.29
Install TSP foundation	Forklifts	1	0.00	125	0.20
Install TSP foundation	Off-Highway Trucks	1	4.00	350	0.38
Install TSP foundation	Off-Highway Trucks	1	0.00	400	0.38
Install TSP foundation	Off-Highway Trucks	1	8.00	300	0.38
Install TSP foundation	Tractors/Loaders/Backhoes	1	6.00	125	0.37
TSP Haul	Cranes	1	6.00	350	0.29
TSP Haul	Cranes	1	2.00	350	0.29
TSP Haul	Forklifts	1	6.00	125	0.20
TSP Haul	Graders	1	8.00	162	0.41
TSP Haul	Off-Highway Trucks	1	8.00	400	0.38
TSP Haul	Off-Highway Trucks	1	2.00	400	0.38
TSP Haul	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Casitas Civil	Bore/Drill Rigs	1	6.00	305	0.50
Casitas Civil	Cranes	1	4.00	180	0.29
Casitas Civil	Forklifts	1	2.00	75	0.20
Casitas Civil	Graders	1	0.00	162	0.41
Casitas Civil	Off-Highway Trucks	2	2.00	180	0.38
Casitas Civil	Off-Highway Trucks	1	6.00	180	0.38
Casitas Civil	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Casitas Civil	Tractors/Loaders/Backhoes	1	6.00	85	0.37
Casitas Civil	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Install Conductor	Cranes	2	8.00	350	0.29
Install Conductor	Cranes	1	0.00	350	0.29
Install Conductor	Forklifts	1	0.00	125	0.20
Install Conductor	Graders	1	0.00	162	0.41
Install Conductor	Off-Highway Trucks	4	8.00	250	0.38
Install Conductor	Off-Highway Trucks	1	2.00	350	0.38

Install Conductor	Off-Highway Trucks	2	6.00	350	0.38
Install Conductor	Off-Highway Trucks	1	6.00	350	0.38
Install Conductor	Off-Highway Trucks	2	4.00	450	0.38
Install Conductor	Off-Highway Trucks	1	0.00	400	0.38
Install Conductor	Off-Highway Trucks	4	8.00	300	0.38
Install Conductor	Off-Highway Trucks	2	8.00	300	0.38
Install Conductor	Other Construction Equipment	1	6.00	300	0.42
Install Conductor	Other Construction Equipment	1	6.00	350	0.42
Install Conductor	Tractors/Loaders/Backhoes	1	2.00	125	0.37
TSP Assembly	Air Compressors	1	6.00	60	0.48
TSP Assembly	Cranes	1	8.00	350	0.29
TSP Assembly	Cranes	1	0.00	350	0.29
TSP Assembly	Forklifts	1	0.00	125	0.20
TSP Assembly	Graders	1	0.00	162	0.41
TSP Assembly	Off-Highway Trucks	2	4.00	300	0.38
TSP Assembly	Tractors/Loaders/Backhoes	1	0.00	75	0.37
TSP Erection	Air Compressors	1	4.00	60	0.48
TSP Erection	Cranes	1	0.00	350	0.29
TSP Erection	Cranes	1	8.00	350	0.29
TSP Erection	Forklifts	1	0.00	125	0.20
TSP Erection	Graders	1	0.00	162	0.41
TSP Erection	Off-Highway Trucks	2	4.00	300	0.38
TSP Erection	Off-Highway Trucks	1	0.00	400	0.38
TSP Erection	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Casitas Electrical	Aerial Lifts	2	6.00	75	0.31
Casitas Electrical	Cranes	1	4.00	180	0.29
Casitas Electrical	Forklifts	1	2.00	75	0.20
Casitas Electrical	Graders	1	0.00	162	0.41
Casitas Electrical	Off-Highway Trucks	1	2.00	180	0.38
Casitas Electrical	Off-Highway Trucks	1	2.00	180	0.38
Casitas Electrical	Off-Highway Trucks	2	2.00	180	0.38

Casitas Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
LST Removal	Air Compressors	1	8.00	60	0.48
LST Removal	Cranes	1	6.00	215	0.29
LST Removal	Cranes	1	6.00	350	0.29
LST Removal	Cranes	1	0.00	350	0.29
LST Removal	Forklifts	1	0.00	125	0.20
LST Removal	Graders	1	0.00	162	0.41
LST Removal	Off-Highway Trucks	1	4.00	400	0.38
LST Removal	Off-Highway Trucks	1	0.00	400	0.38
LST Removal	Tractors/Loaders/Backhoes	1	0.00	75	0.37
LST Foundation Removal	Air Compressors	1	8.00	60	0.48
LST Foundation Removal	Concrete/Industrial Saws	1	0.00	81	0.73
LST Foundation Removal	Excavators	1	4.00	250	0.38
LST Foundation Removal	Off-Highway Trucks	1	6.00	350	0.38
LST Foundation Removal	Rubber Tired Dozers	1	0.00	358	0.40
LST Foundation Removal	Tractors/Loaders/Backhoes	1	6.00	125	0.37
Seg4 Remove Existing Conductor & GW	Concrete/Industrial Saws	0	8.00	81	0.73
Seg4 Remove Existing Conductor & GW	Cranes	2	8.00	350	0.29
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	4	4.00	300	0.38
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	4	8.00	250	0.38
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	2	4.00	300	0.38
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	1	6.00	350	0.38
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	2	4.00	450	0.38
Seg4 Remove Existing Conductor & GW	Other General Industrial Equipment	1	6.00	350	0.34
Seg4 Remove Existing Conductor & GW	Other General Industrial Equipment	1	6.00	300	0.34
Seg4 Remove Existing Conductor & GW	Rubber Tired Dozers	0	1.00	255	0.40
Seg4 Remove Existing Conductor & GW	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Site 132 Brushing, Roads & Landing Work	Graders	0	8.00	174	0.41
Site 132 Brushing, Roads & Landing Work	Off-Highway Trucks	1	6.00	300	0.38
Site 132 Brushing, Roads & Landing Work	Off-Highway Trucks	1	8.00	300	0.38
Site 132 Brushing, Roads & Landing Work	Other Construction Equipment	1	8.00	50	0.42

Site 132 Brushing, Roads & Landing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Mark					
Site 128 Brushing, Roads & Landing	Excavators	2	3.00	70	0.38
Mark					
Site 128 Brushing, Roads & Landing	Graders	0	8.00	174	0.41
Mark					
Site 128 Brushing, Roads & Landing	Off-Highway Trucks	2	6.00	300	0.38
Mark					
Site 128 Brushing, Roads & Landing	Off-Highway Trucks	1	6.00	350	0.38
Mark					
Site 128 Brushing, Roads & Landing	Off-Highway Trucks	1	8.00	300	0.38
Mark					
Site 128 Brushing, Roads & Landing	Off-Highway Trucks	1	4.00	450	0.38
Mark					
Site 128 Brushing, Roads & Landing	Other Construction Equipment	1	4.00	110	0.42
Mark					
Site 128 Brushing, Roads & Landing	Other Construction Equipment	1	8.00	50	0.42
Mark					
Site 128 Brushing, Roads & Landing	Rubber Tired Loaders	1	6.00	150	0.36
Mark					
Site 128 Brushing, Roads & Landing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Mark					
Site 99 Install J-Tower Foundations	Excavators	1	3.00	70	0.38
Site 99 Install J-Tower Foundations	Graders	0	8.00	174	0.41
Site 99 Install J-Tower Foundations	Off-Highway Trucks	2	8.00	300	0.38
Site 99 Install J-Tower Foundations	Off-Highway Trucks	1	8.00	350	0.38
Site 99 Install J-Tower Foundations	Off-Highway Trucks	3	2.00	350	0.38
Site 99 Install J-Tower Foundations	Rubber Tired Loaders	2	6.00	250	0.36
Site 99 Install J-Tower Foundations	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 97 Install J-Tower Footings	Air Compressors	1	6.00	60	0.48
Site 97 Install J-Tower Footings	Excavators	1	6.00	70	0.38
Site 97 Install J-Tower Footings	Forklifts	1	7.00	125	0.20
Site 97 Install J-Tower Footings	Graders	0	8.00	174	0.41
Site 97 Install J-Tower Footings	Graders	0	8.00	174	0.41
Site 97 Install J-Tower Footings	Off-Highway Trucks	1	6.00	300	0.38
Site 97 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 97 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 97 Install J-Tower Footings	Off-Highway Trucks	1	2.00	350	0.38
Site 97 Install J-Tower Footings	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 97 Install J-Tower Footings	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 132 LST Removal	Air Compressors	1	8.00	60	0.48
Site 132 LST Removal	Graders	0	8.00	174	0.41

Site 132 LST Removal	Off-Highway Trucks	1	8.00	300	0.38
Site 132 LST Removal	Off-Highway Trucks	1	4.00	350	0.38
Site 132 LST Removal	Off-Highway Trucks	1	4.00	400	0.38
Site 132 LST Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 99 J-Tower Assembly & Erection	Air Compressors	1	8.00	60	0.48
Site 99 J-Tower Assembly & Erection	Forklifts	1	7.00	125	0.20
Site 99 J-Tower Assembly & Erection	Graders	0	8.00	174	0.41
Site 99 J-Tower Assembly & Erection	Off-Highway Trucks	2	6.00	300	0.38
Site 99 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	400	0.38
Site 99 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38
Site 99 J-Tower Assembly & Erection	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 97 J-Tower Assembly & Erection	Air Compressors	1	8.00	60	0.48
Site 97 J-Tower Assembly & Erection	Forklifts	1	7.00	125	0.20
Site 97 J-Tower Assembly & Erection	Graders	0	8.00	174	0.41
Site 97 J-Tower Assembly & Erection	Off-Highway Trucks	2	6.00	300	0.38
Site 97 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	400	0.38
Site 97 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38
Site 97 J-Tower Assembly & Erection	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 132 Install J-Tower Footings	Graders	0	8.00	174	0.41
Site 132 Install J-Tower Footings	Off-Highway Trucks	1	8.00	400	0.38
Site 132 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 132 Install J-Tower Footings	Off-Highway Trucks	2	8.00	300	0.38
Site 132 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 132 Install J-Tower Footings	Off-Highway Trucks	3	3.00	350	0.38
Site 132 Install J-Tower Footings	Rubber Tired Loaders	2	6.00	250	0.36
Site 132 Install J-Tower Footings	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 128 LST Removal	Air Compressors	1	8.00	60	0.48
Site 128 LST Removal	Graders	0	8.00	174	0.41
Site 128 LST Removal	Off-Highway Trucks	1	8.00	300	0.38
Site 128 LST Removal	Off-Highway Trucks	1	4.00	350	0.38
Site 128 LST Removal	Off-Highway Trucks	1	4.00	400	0.38

Site 128 LST Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Wood Pole Removal	Air Compressors	1	5.00	60	0.48
Wood Pole Removal	Cranes	1	9.00	350	0.29
Wood Pole Removal	Cranes	1	0.00	350	0.29
Wood Pole Removal	Forklifts	1	0.00	125	0.20
Wood Pole Removal	Graders	1	0.00	162	0.41
Wood Pole Removal	Off-Highway Trucks	1	9.00	250	0.38
Wood Pole Removal	Off-Highway Trucks	2	9.00	300	0.38
Wood Pole Removal	Off-Highway Trucks	1	9.00	400	0.38
Wood Pole Removal	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Seg 4 LST Removal	Air Compressors	1	8.00	60	0.48
Seg 4 LST Removal	Cranes	1	6.00	215	0.29
Seg 4 LST Removal	Cranes	1	6.00	350	0.29
Seg 4 LST Removal	Graders	0	8.00	174	0.41
Seg 4 LST Removal	Off-Highway Trucks	1	4.00	400	0.38
Seg 4 LST Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 128 Install J-Tower Footings	Excavators	1	3.00	70	0.38
Site 128 Install J-Tower Footings	Graders	0	8.00	174	0.41
Site 128 Install J-Tower Footings	Off-Highway Trucks	1	6.00	400	0.38
Site 128 Install J-Tower Footings	Off-Highway Trucks	1	8.00	300	0.38
Site 128 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 128 Install J-Tower Footings	Off-Highway Trucks	1	2.00	350	0.38
Site 128 Install J-Tower Footings	Rubber Tired Loaders	1	6.00	250	0.36
Site 128 Install J-Tower Footings	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 132 J-Tower Assembly & Erection	Air Compressors	1	8.00	60	0.48
Site 132 J-Tower Assembly & Erection	Forklifts	1	7.00	125	0.20
Site 132 J-Tower Assembly & Erection	Graders	0	8.00	174	0.41
Site 132 J-Tower Assembly & Erection	Off-Highway Trucks	2	6.00	300	0.38
Site 132 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	400	0.38
Site 132 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38
Site 132 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38



Site 132 J-Tower Assembly & Erection	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 128 J-Tower Assembly & Erection	Air Compressors	1	8.00	60	0.48
Site 128 J-Tower Assembly & Erection	Forklifts	1	7.00	125	0.20
Site 128 J-Tower Assembly & Erection	Graders	1	8.00	174	0.41
Site 128 J-Tower Assembly & Erection	Off-Highway Trucks	2	6.00	300	0.38
Site 128 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	400	0.38
Site 128 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38
Site 128 J-Tower Assembly & Erection	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Seg 4 LST Foundation Removal	Air Compressors	1	8.00	60	0.48
Seg 4 LST Foundation Removal	Concrete/Industrial Saws	0	8.00	81	0.73
Seg 4 LST Foundation Removal	Excavators	1	4.00	250	0.38
Seg 4 LST Foundation Removal	Off-Highway Trucks	1	6.00	350	0.38
Seg 4 LST Foundation Removal	Rubber Tired Dozers	0	1.00	255	0.40
Seg 4 LST Foundation Removal	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Seg 4 LST Foundation Removal	Tractors/Loaders/Backhoes	1	6.00	125	0.37
Santa Clara Maintenance	Graders	1	0.00	162	0.41
Santa Clara Maintenance	Off-Highway Trucks	1	6.00	180	0.38
Santa Clara Maintenance	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Casitas Maintenace	Graders	1	8.00	162	0.41
Casitas Maintenace	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Carpinteria Maintenance	Graders	1	0.00	162	0.41
Carpinteria Maintenance	Off-Highway Trucks	1	6.00	180	0.38
Carpinteria Maintenance	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Casitas Test	Graders	1	0.00	162	0.41
Casitas Test	Off-Highway Trucks	1	2.00	180	0.38
Casitas Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Clara Test	Graders	1	0.00	162	0.41
Santa Clara Test	Off-Highway Trucks	1	2.00	180	0.38
Santa Clara Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Carpinteria Test	Graders	1	0.00	162	0.41
Carpinteria Test	Off-Highway Trucks	1	2.00	180	0.38

Carpinteria Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Golita Electrical	Graders	1	0.00	162	0.41
Golita Electrical	Off-Highway Trucks	1	2.00	180	0.38
Golita Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Barbara Electrical	Graders	1	0.00	162	0.41
Santa Barbara Electrical	Off-Highway Trucks	1	2.00	180	0.38
Santa Barbara Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Golita Test	Graders	1	0.00	162	0.41
Golita Test	Off-Highway Trucks	1	2.00	180	0.38
Golita Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Barbara Test	Graders	1	0.00	162	0.41
Santa Barbara Test	Off-Highway Trucks	1	2.00	180	0.38
Santa Barbara Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Ortega Electrical	Graders	1	0.00	162	0.41
Ortega Electrical	Off-Highway Trucks	1	2.00	180	0.38
Ortega Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Ortega Test	Graders	1	0.00	162	0.41
Ortega Test	Off-Highway Trucks	1	2.00	180	0.38
Ortega Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
LWS Pole Haul	Cranes	1	0.00	350	0.29
LWS Pole Haul	Cranes	1	6.00	350	0.29
LWS Pole Haul	Forklifts	1	0.00	125	0.20
LWS Pole Haul	Graders	1	0.00	162	0.41
LWS Pole Haul	Off-Highway Trucks	1	8.00	400	0.38
LWS Pole Haul	Off-Highway Trucks	1	0.00	400	0.38
LWS Pole Haul	Tractors/Loaders/Backhoes	1	0.00	75	0.37
LWS Pole Assembly	Air Compressors	1	4.00	60	0.48
LWS Pole Assembly	Cranes	1	8.00	350	0.29
LWS Pole Assembly	Cranes	1	2.00	350	0.29
LWS Pole Assembly	Forklifts	1	6.00	125	0.20
LWS Pole Assembly	Graders	1	8.00	162	0.41

LWS Pole Assembly	Off-Highway Trucks	1	2.00	400	0.38
LWS Pole Assembly	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Instal LWS Pole	Bore/Drill Rigs	1	4.00	210	0.50
Instal LWS Pole	Cranes	1	6.00	350	0.29
Instal LWS Pole	Cranes	1	0.00	350	0.29
Instal LWS Pole	Forklifts	1	6.00	125	0.20
Instal LWS Pole	Graders	1	0.00	162	0.41
Instal LWS Pole	Off-Highway Trucks	1	6.00	250	0.38
Instal LWS Pole	Off-Highway Trucks	1	8.00	400	0.38
Instal LWS Pole	Off-Highway Trucks	1	0.00	400	0.38
Instal LWS Pole	Tractors/Loaders/Backhoes	1	0.00	125	0.37
Install PRGW&FRC	Cranes	1	8.00	350	0.29
Install PRGW&FRC	Cranes	1	0.00	350	0.29
Install PRGW&FRC	Forklifts	1	0.00	125	0.20
Install PRGW&FRC	Graders	1	0.00	162	0.41
Install PRGW&FRC	Off-Highway Trucks	4	8.00	250	0.38
Install PRGW&FRC	Off-Highway Trucks	1	2.00	350	0.38
Install PRGW&FRC	Off-Highway Trucks	2	6.00	350	0.38
Install PRGW&FRC	Off-Highway Trucks	1	6.00	350	0.38
Install PRGW&FRC	Off-Highway Trucks	2	4.00	450	0.38
Install PRGW&FRC	Off-Highway Trucks	1	0.00	400	0.38
Install PRGW&FRC	Off-Highway Trucks	3	8.00	300	0.38
Install PRGW&FRC	Off-Highway Trucks	2	8.00	300	0.38
Install PRGW&FRC	Other Construction Equipment	1	6.00	300	0.42
Install PRGW&FRC	Other Construction Equipment	1	6.00	350	0.42
Install PRGW&FRC	Tractors/Loaders/Backhoes	1	2.00	125	0.37
Guard Structure Removal	Air Compressors	1	4.00	60	0.48
Guard Structure Removal	Bore/Drill Rigs	1	0.00	210	0.50
Guard Structure Removal	Concrete/Industrial Saws	1	0.00	81	0.73
Guard Structure Removal	Cranes	2	0.00	350	0.29
Guard Structure Removal	Cranes	1	6.00	350	0.29

Guard Structure Removal	Forklifts	1	0.00	125	0.20
Guard Structure Removal	Off-Highway Trucks	1	4.00	250	0.38
Guard Structure Removal	Off-Highway Trucks	1	0.00	350	0.38
Guard Structure Removal	Off-Highway Trucks	1	8.00	400	0.38
Guard Structure Removal	Off-Highway Trucks	4	0.00	300	0.38
Guard Structure Removal	Rubber Tired Dozers	1	0.00	358	0.40
Guard Structure Removal	Tractors/Loaders/Backhoes	2	0.00	75	0.37
Duct Bank Installation	Air Compressors	1	4.00	60	0.48
Duct Bank Installation	Cement and Mortar Mixers	3	2.00	350	0.56
Duct Bank Installation	Graders	1	0.00	162	0.41
Duct Bank Installation	Off-Highway Trucks	2	4.00	300	0.38
Duct Bank Installation	Off-Highway Trucks	2	6.00	350	0.38
Duct Bank Installation	Off-Highway Trucks	1	6.00	275	0.38
Duct Bank Installation	Off-Highway Trucks	1	8.00	300	0.38
Duct Bank Installation	Off-Highway Trucks	1	4.00	450	0.38
Duct Bank Installation	Tractors/Loaders/Backhoes	1	6.00	125	0.37
UG Cable Installation	Cranes	1	6.00	350	0.29
UG Cable Installation	Graders	1	8.00	162	0.41
UG Cable Installation	Off-Highway Trucks	1	6.00	250	0.38
UG Cable Installation	Off-Highway Trucks	2	6.00	350	0.38
UG Cable Installation	Off-Highway Trucks	1	6.00	350	0.38
UG Cable Installation	Other Construction Equipment	1	6.00	300	0.42
UG Cable Installation	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Restoration	Cranes	1	0.00	350	0.29
Restoration	Forklifts	1	0.00	125	0.20
Restoration	Graders	1	6.00	250	0.41
Restoration	Off-Highway Trucks	1	8.00	300	0.38
Restoration	Off-Highway Trucks	1	4.00	459	0.38
Restoration	Plate Compactors	1	4.00	100	0.43
Restoration	Plate Compactors	1	4.00	100	0.43
Restoration	Tractors/Loaders/Backhoes	1	4.00	125	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Carpinteria Material Yards	7	34.00	5.00	448.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Y Material Yard	6	28.00	5.00	58.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Hwy 150A Material Yard	7	26.00	5.00	42.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Hwy 150B Material Yard	4	22.00	5.00	22.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Hwy 150C Material Yard	4	22.00	5.00	18.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Hwy 150D Material Yard	6	26.00	5.00	56.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Santa Ana Material Yard	6	26.00	5.00	48.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Survey	3	8.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Material Staging Yards	7	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
Tree Trimming	5	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
R/W Clearing	10	10.00	0.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
Retaining Wall Structures	28	60.00	5.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Carpinteria Civil	10	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Clara Civil	6	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Roads and Landing Work	15	10.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
Guard Structure Installation	11	12.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Carpinteria Electrical	11	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Clara Electrical	9	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Remove Existing Conductor	20	40.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Install TSP foundation	11	12.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
TSP Haul	7	8.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
Casitas Civil	10	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Install Conductor	25	40.00	3.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
TSP Assembly	8	16.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
TSP Erection	9	16.00	4.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Casitas Electrical	10	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
LST Removal	9	16.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT

LST Foundation Removal	6	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
Seg4 Remove Existing Conductor & GW	17	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site 132 Brushing, Roads & Landing Work	3	10.00	1.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 128 Brushing, Roads & Landing Work	10	10.00	1.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 99 Install J-Tower Foundations	9	16.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 97 Install J-Tower Footings	7	16.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 132 LST Removal	4	16.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Site 99 J-Tower Assembly & Erection	6	24.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 97 J-Tower Assembly & Erection	6	24.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 132 Install J-Tower Footings	10	12.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 128 LST Removal	4	16.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Wood Pole Removal	10	12.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Seg 4 LST Removal	4	16.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Site 128 Install J-Tower Footings	6	12.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 132 J-Tower Assembly & Erection	7	24.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 128 J-Tower Assembly & Erection	8	24.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Seg 4 LST Foundation Removal	4	8.00	1.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Santa Clara Maintenance	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Casitas Maintenance	2	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Carpinteria Maintenance	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Casitas Test	3	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Clara Test	3	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Carpinteria Test	3	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Golita Electrical	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Barbara Electrical	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Golita Test	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Barbara Test	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Ortega Electrical	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Ortega Test	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
LWS Pole Haul	7	8.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
LWS Pole Assembly	7	16.00	4.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT

Instal LWS Pole	9	12.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
Install PRGW&FRC	23	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
Guard Structure Removal	17	12.00	2.00	59.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Duct Bank Installation	13	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
UG Cable Installation	8	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
Restoration	8	14.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT

### 3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Carpinteria Material Yards - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0468	0.0000	0.0468	0.0237	0.0000	0.0237			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.3085				0.0129	0.0129		0.0118	0.0118			25.3444	7.5700e-003	0.0000	25.5033
<b>Total</b>	<b>0.0254</b>	<b>0.3085</b>			<b>0.0468</b>	<b>0.0129</b>	<b>0.0597</b>	<b>0.0237</b>	<b>0.0118</b>	<b>0.0355</b>			<b>25.3444</b>	<b>7.5700e-003</b>	<b>0.0000</b>	<b>25.5033</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5500e-003	0.0793			0.6069	1.3200e-003	0.6082	0.0612	1.2100e-003	0.0624			14.9262	1.1000e-004	0.0000	14.9286
Vendor	4.5000e-004	6.8500e-003			0.2833	1.6000e-004	0.2835	0.0284	1.5000e-004	0.0285			1.3948	1.0000e-005	0.0000	1.3950
Worker	9.3000e-004	1.1200e-003			0.3479	2.0000e-005	0.3480	0.0350	1.0000e-005	0.0350			1.7572	1.0000e-004	0.0000	1.7592
<b>Total</b>	<b>5.9300e-003</b>	<b>0.0873</b>			<b>1.2382</b>	<b>1.5000e-003</b>	<b>1.2397</b>	<b>0.1246</b>	<b>1.3700e-003</b>	<b>0.1259</b>			<b>18.0783</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>18.0828</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0179	0.0000	0.0179	9.0600e-003	0.0000	9.0600e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.3085				0.0129	0.0129		0.0118	0.0118			25.3444	7.5700e-003	0.0000	25.5033
<b>Total</b>	<b>0.0254</b>	<b>0.3085</b>			<b>0.0179</b>	<b>0.0129</b>	<b>0.0308</b>	<b>9.0600e-003</b>	<b>0.0118</b>	<b>0.0209</b>			<b>25.3444</b>	<b>7.5700e-003</b>	<b>0.0000</b>	<b>25.5033</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5500e-003	0.0793			0.1694	1.3200e-003	0.1707	0.0174	1.2100e-003	0.0187			14.9262	1.1000e-004	0.0000	14.9286
Vendor	4.5000e-004	6.8500e-003			0.0784	1.6000e-004	0.0785	7.9100e-003	1.5000e-004	8.0600e-003			1.3948	1.0000e-005	0.0000	1.3950
Worker	9.3000e-004	1.1200e-003			0.0969	2.0000e-005	0.0969	9.9100e-003	1.0000e-005	9.9300e-003			1.7572	1.0000e-004	0.0000	1.7592
<b>Total</b>	<b>5.9300e-003</b>	<b>0.0873</b>			<b>0.3446</b>	<b>1.5000e-003</b>	<b>0.3461</b>	<b>0.0353</b>	<b>1.3700e-003</b>	<b>0.0366</b>			<b>18.0783</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>18.0828</b>

**3.3 Y Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1800e-003	0.0000	2.1800e-003	9.0000e-004	0.0000	9.0000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	1.9100e-003	0.0226				9.3000e-004	9.3000e-004		8.6000e-004	8.6000e-004			2.1507	6.4000e-004	0.0000	2.1642
<b>Total</b>	<b>1.9100e-003</b>	<b>0.0226</b>			<b>2.1800e-003</b>	<b>9.3000e-004</b>	<b>3.1100e-003</b>	<b>9.0000e-004</b>	<b>8.6000e-004</b>	<b>1.7600e-003</b>			<b>2.1507</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.1642</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.9000e-004	0.0103			0.0786	1.7000e-004	0.0787	7.9200e-003	1.6000e-004	8.0800e-003			1.9324	1.0000e-005	0.0000	1.9327
Vendor	1.3000e-004	1.9600e-003			0.0810	5.0000e-005	0.0810	8.1100e-003	4.0000e-005	8.1500e-003			0.3985	0.0000	0.0000	0.3986
Worker	2.2000e-004	2.6000e-004			0.0819	0.0000	0.0819	8.2400e-003	0.0000	8.2400e-003			0.4135	2.0000e-005	0.0000	0.4139
<b>Total</b>	<b>9.4000e-004</b>	<b>0.0125</b>			<b>0.2414</b>	<b>2.2000e-004</b>	<b>0.2416</b>	<b>0.0243</b>	<b>2.0000e-004</b>	<b>0.0245</b>			<b>2.7444</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.7452</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.3000e-004	0.0000	8.3000e-004	3.4000e-004	0.0000	3.4000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	1.9100e-003	0.0226				9.3000e-004	9.3000e-004		8.6000e-004	8.6000e-004			2.1507	6.4000e-004	0.0000	2.1642
<b>Total</b>	<b>1.9100e-003</b>	<b>0.0226</b>			<b>8.3000e-004</b>	<b>9.3000e-004</b>	<b>1.7600e-003</b>	<b>3.4000e-004</b>	<b>8.6000e-004</b>	<b>1.2000e-003</b>			<b>2.1507</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.1642</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.9000e-004	0.0103			0.0219	1.7000e-004	0.0221	2.2600e-003	1.6000e-004	2.4100e-003			1.9324	1.0000e-005	0.0000	1.9327
Vendor	1.3000e-004	1.9600e-003			0.0224	5.0000e-005	0.0224	2.2600e-003	4.0000e-005	2.3000e-003			0.3985	0.0000	0.0000	0.3986
Worker	2.2000e-004	2.6000e-004			0.0228	0.0000	0.0228	2.3300e-003	0.0000	2.3400e-003			0.4135	2.0000e-005	0.0000	0.4139
<b>Total</b>	<b>9.4000e-004</b>	<b>0.0125</b>			<b>0.0671</b>	<b>2.2000e-004</b>	<b>0.0673</b>	<b>6.8500e-003</b>	<b>2.0000e-004</b>	<b>7.0500e-003</b>			<b>2.7444</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.7452</b>

**3.4 Hwy 150A Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9800e-003	0.0000	1.9800e-003	8.8000e-004	0.0000	8.8000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	3.1900e-003	0.0397				1.5100e-003	1.5100e-003		1.3900e-003	1.3900e-003			3.6164	1.0800e-003	0.0000	3.6390
<b>Total</b>	<b>3.1900e-003</b>	<b>0.0397</b>			<b>1.9800e-003</b>	<b>1.5100e-003</b>	<b>3.4900e-003</b>	<b>8.8000e-004</b>	<b>1.3900e-003</b>	<b>2.2700e-003</b>			<b>3.6164</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.639</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3000e-004	7.4300e-003			0.0569	1.2000e-004	0.0570	5.7400e-003	1.1000e-004	5.8500e-003			1.3993	1.0000e-005	0.0000	1.3996
Vendor	1.3000e-004	1.9600e-003			0.0810	5.0000e-005	0.0810	8.1100e-003	4.0000e-005	8.1500e-003			0.3985	0.0000	0.0000	0.3986
Worker	2.0000e-004	2.5000e-004			0.0760	0.0000	0.0760	7.6500e-003	0.0000	7.6500e-003			0.3839	2.0000e-005	0.0000	0.3844
<b>Total</b>	<b>7.6000e-004</b>	<b>9.6400e-003</b>			<b>0.2139</b>	<b>1.7000e-004</b>	<b>0.2140</b>	<b>0.0215</b>	<b>1.5000e-004</b>	<b>0.0217</b>			<b>2.1818</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1825</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6000e-004	0.0000	7.6000e-004	3.4000e-004	0.0000	3.4000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	3.1900e-003	0.0397				1.5100e-003	1.5100e-003		1.3900e-003	1.3900e-003			3.6164	1.0800e-003	0.0000	3.6390
<b>Total</b>	<b>3.1900e-003</b>	<b>0.0397</b>			<b>7.6000e-004</b>	<b>1.5100e-003</b>	<b>2.2700e-003</b>	<b>3.4000e-004</b>	<b>1.3900e-003</b>	<b>1.7300e-003</b>			<b>3.6164</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.639</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3000e-004	7.4300e-003			0.0159	1.2000e-004	0.0160	1.6300e-003	1.1000e-004	1.7500e-003			1.3993	1.0000e-005	0.0000	1.3996
Vendor	1.3000e-004	1.9600e-003			0.0224	5.0000e-005	0.0224	2.2600e-003	4.0000e-005	2.3000e-003			0.3985	0.0000	0.0000	0.3986
Worker	2.0000e-004	2.5000e-004			0.0212	0.0000	0.0212	2.1700e-003	0.0000	2.1700e-003			0.3839	2.0000e-005	0.0000	0.3844
<b>Total</b>	<b>7.6000e-004</b>	<b>9.6400e-003</b>			<b>0.0594</b>	<b>1.7000e-004</b>	<b>0.0596</b>	<b>6.0600e-003</b>	<b>1.5000e-004</b>	<b>6.2200e-003</b>			<b>2.1818</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1825</b>

**3.5 Hwy 150B Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.2700e-003	0.0000	3.2700e-003	1.6800e-003	0.0000	1.6800e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	1.4000e-003	0.0158				7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004			1.3561	4.0000e-004	0.0000	1.3646
<b>Total</b>	<b>1.4000e-003</b>	<b>0.0158</b>			<b>3.2700e-003</b>	<b>7.4000e-004</b>	<b>4.0100e-003</b>	<b>1.6800e-003</b>	<b>6.8000e-004</b>	<b>2.3600e-003</b>			<b>1.3561</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.3646</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	3.8900e-003			0.0298	6.0000e-005	0.0299	3.0000e-003	6.0000e-005	3.0600e-003			0.7330	1.0000e-005	0.0000	0.7331
Vendor	1.3000e-004	1.9600e-003			0.0810	5.0000e-005	0.0810	8.1100e-003	4.0000e-005	8.1500e-003			0.3985	0.0000	0.0000	0.3986
Worker	1.7000e-004	2.1000e-004			0.0643	0.0000	0.0643	6.4700e-003	0.0000	6.4800e-003			0.3249	2.0000e-005	0.0000	0.3252
<b>Total</b>	<b>5.2000e-004</b>	<b>6.0600e-003</b>			<b>0.1751</b>	<b>1.1000e-004</b>	<b>0.1752</b>	<b>0.0176</b>	<b>1.0000e-004</b>	<b>0.0177</b>			<b>1.4564</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4569</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2500e-003	0.0000	1.2500e-003	6.4000e-004	0.0000	6.4000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	1.4000e-003	0.0158				7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004			1.3561	4.0000e-004	0.0000	1.3646
<b>Total</b>	<b>1.4000e-003</b>	<b>0.0158</b>			<b>1.2500e-003</b>	<b>7.4000e-004</b>	<b>1.9900e-003</b>	<b>6.4000e-004</b>	<b>6.8000e-004</b>	<b>1.3200e-003</b>			<b>1.3561</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.3646</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	3.8900e-003			8.3200e-003	6.0000e-005	8.3800e-003	8.6000e-004	6.0000e-005	9.2000e-004			0.7330	1.0000e-005	0.0000	0.7331
Vendor	1.3000e-004	1.9600e-003			0.0224	5.0000e-005	0.0224	2.2600e-003	4.0000e-005	2.3000e-003			0.3985	0.0000	0.0000	0.3986
Worker	1.7000e-004	2.1000e-004			0.0179	0.0000	0.0179	1.8300e-003	0.0000	1.8400e-003			0.3249	2.0000e-005	0.0000	0.3252
<b>Total</b>	<b>5.2000e-004</b>	<b>6.0600e-003</b>			<b>0.0486</b>	<b>1.1000e-004</b>	<b>0.0487</b>	<b>4.9500e-003</b>	<b>1.0000e-004</b>	<b>5.0600e-003</b>			<b>1.4564</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4569</b>

**3.6 Hwy 150C Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.2100e-003	0.0000	3.2100e-003	1.6800e-003	0.0000	1.6800e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	1.4000e-003	0.0158				7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004			1.3561	4.0000e-004	0.0000	1.3646
<b>Total</b>	<b>1.4000e-003</b>	<b>0.0158</b>			<b>3.2100e-003</b>	<b>7.4000e-004</b>	<b>3.9500e-003</b>	<b>1.6800e-003</b>	<b>6.8000e-004</b>	<b>2.3600e-003</b>			<b>1.3561</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.3646</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	3.1900e-003			0.0244	5.0000e-005	0.0244	2.4600e-003	5.0000e-005	2.5100e-003			0.5997	0.0000	0.0000	0.5998
Vendor	1.3000e-004	1.9600e-003			0.0810	5.0000e-005	0.0810	8.1100e-003	4.0000e-005	8.1500e-003			0.3985	0.0000	0.0000	0.3986
Worker	1.7000e-004	2.1000e-004			0.0643	0.0000	0.0643	6.4700e-003	0.0000	6.4800e-003			0.3249	2.0000e-005	0.0000	0.3252
<b>Total</b>	<b>4.8000e-004</b>	<b>5.3600e-003</b>			<b>0.1697</b>	<b>1.0000e-004</b>	<b>0.1698</b>	<b>0.0170</b>	<b>9.0000e-005</b>	<b>0.0171</b>			<b>1.3231</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.3236</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2300e-003	0.0000	1.2300e-003	6.4000e-004	0.0000	6.4000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	1.4000e-003	0.0158				7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004			1.3561	4.0000e-004	0.0000	1.3646
<b>Total</b>	<b>1.4000e-003</b>	<b>0.0158</b>			<b>1.2300e-003</b>	<b>7.4000e-004</b>	<b>1.9700e-003</b>	<b>6.4000e-004</b>	<b>6.8000e-004</b>	<b>1.3200e-003</b>			<b>1.3561</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.3646</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	3.1900e-003			6.8000e-003	5.0000e-005	6.8600e-003	7.0000e-004	5.0000e-005	7.5000e-004			0.5997	0.0000	0.0000	0.5998
Vendor	1.3000e-004	1.9600e-003			0.0224	5.0000e-005	0.0224	2.2600e-003	4.0000e-005	2.3000e-003			0.3985	0.0000	0.0000	0.3986
Worker	1.7000e-004	2.1000e-004			0.0179	0.0000	0.0179	1.8300e-003	0.0000	1.8400e-003			0.3249	2.0000e-005	0.0000	0.3252
<b>Total</b>	<b>4.8000e-004</b>	<b>5.3600e-003</b>			<b>0.0471</b>	<b>1.0000e-004</b>	<b>0.0472</b>	<b>4.7900e-003</b>	<b>9.0000e-005</b>	<b>4.8900e-003</b>			<b>1.3231</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.3236</b>

**3.7 Hwy 150D Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0127	0.0000	0.0127	6.6900e-003	0.0000	6.6900e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	5.9600e-003	0.0711				3.0900e-003	3.0900e-003		2.8400e-003	2.8400e-003			5.7756	1.7200e-003	0.0000	5.8118
<b>Total</b>	<b>5.9600e-003</b>	<b>0.0711</b>			<b>0.0127</b>	<b>3.0900e-003</b>	<b>0.0158</b>	<b>6.6900e-003</b>	<b>2.8400e-003</b>	<b>9.5300e-003</b>			<b>5.7756</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>5.8118</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	9.9100e-003			0.0759	1.6000e-004	0.0760	7.6500e-003	1.5000e-004	7.8000e-003			1.8658	1.0000e-005	0.0000	1.8661
Vendor	1.3000e-004	1.9600e-003			0.0810	5.0000e-005	0.0810	8.1100e-003	4.0000e-005	8.1500e-003			0.3985	0.0000	0.0000	0.3986
Worker	2.0000e-004	2.5000e-004			0.0760	0.0000	0.0760	7.6500e-003	0.0000	7.6500e-003			0.3839	2.0000e-005	0.0000	0.3844
<b>Total</b>	<b>9.0000e-004</b>	<b>0.0121</b>			<b>0.2328</b>	<b>2.1000e-004</b>	<b>0.2331</b>	<b>0.0234</b>	<b>1.9000e-004</b>	<b>0.0236</b>			<b>2.6482</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.649</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.8500e-003	0.0000	4.8500e-003	2.5600e-003	0.0000	2.5600e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	5.9600e-003	0.0711				3.0900e-003	3.0900e-003		2.8400e-003	2.8400e-003			5.7756	1.7200e-003	0.0000	5.8118
<b>Total</b>	<b>5.9600e-003</b>	<b>0.0711</b>			<b>4.8500e-003</b>	<b>3.0900e-003</b>	<b>7.9400e-003</b>	<b>2.5600e-003</b>	<b>2.8400e-003</b>	<b>5.4000e-003</b>			<b>5.7756</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>5.8118</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	9.9100e-003			0.0212	1.6000e-004	0.0213	2.1800e-003	1.5000e-004	2.3300e-003			1.8658	1.0000e-005	0.0000	1.8661
Vendor	1.3000e-004	1.9600e-003			0.0224	5.0000e-005	0.0224	2.2600e-003	4.0000e-005	2.3000e-003			0.3985	0.0000	0.0000	0.3986
Worker	2.0000e-004	2.5000e-004			0.0212	0.0000	0.0212	2.1700e-003	0.0000	2.1700e-003			0.3839	2.0000e-005	0.0000	0.3844
<b>Total</b>	<b>9.0000e-004</b>	<b>0.0121</b>			<b>0.0647</b>	<b>2.1000e-004</b>	<b>0.0649</b>	<b>6.6100e-003</b>	<b>1.9000e-004</b>	<b>6.8000e-003</b>			<b>2.6482</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.649</b>

**3.8 Santa Ana Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0126	0.0000	0.0126	6.6800e-003	0.0000	6.6800e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	5.9600e-003	0.0711				3.0900e-003	3.0900e-003		2.8400e-003	2.8400e-003			5.7756	1.7200e-003	0.0000	5.8118
<b>Total</b>	<b>5.9600e-003</b>	<b>0.0711</b>			<b>0.0126</b>	<b>3.0900e-003</b>	<b>0.0157</b>	<b>6.6800e-003</b>	<b>2.8400e-003</b>	<b>9.5200e-003</b>			<b>5.7756</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>5.8118</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9000e-004	8.4900e-003			0.0650	1.4000e-004	0.0652	6.5500e-003	1.3000e-004	6.6800e-003			1.5992	1.0000e-005	0.0000	1.5995
Vendor	1.3000e-004	1.9600e-003			0.0810	5.0000e-005	0.0810	8.1100e-003	4.0000e-005	8.1500e-003			0.3985	0.0000	0.0000	0.3986
Worker	2.0000e-004	2.5000e-004			0.0760	0.0000	0.0760	7.6500e-003	0.0000	7.6500e-003			0.3839	2.0000e-005	0.0000	0.3844
<b>Total</b>	<b>8.2000e-004</b>	<b>0.0107</b>			<b>0.2220</b>	<b>1.9000e-004</b>	<b>0.2222</b>	<b>0.0223</b>	<b>1.7000e-004</b>	<b>0.0225</b>			<b>2.3817</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.3824</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.8200e-003	0.0000	4.8200e-003	2.5600e-003	0.0000	2.5600e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	5.9600e-003	0.0711				3.0900e-003	3.0900e-003		2.8400e-003	2.8400e-003			5.7756	1.7200e-003	0.0000	5.8118
<b>Total</b>	<b>5.9600e-003</b>	<b>0.0711</b>			<b>4.8200e-003</b>	<b>3.0900e-003</b>	<b>7.9100e-003</b>	<b>2.5600e-003</b>	<b>2.8400e-003</b>	<b>5.4000e-003</b>			<b>5.7756</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>5.8118</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9000e-004	8.4900e-003			0.0182	1.4000e-004	0.0183	1.8700e-003	1.3000e-004	2.0000e-003			1.5992	1.0000e-005	0.0000	1.5995
Vendor	1.3000e-004	1.9600e-003			0.0224	5.0000e-005	0.0224	2.2600e-003	4.0000e-005	2.3000e-003			0.3985	0.0000	0.0000	0.3986
Worker	2.0000e-004	2.5000e-004			0.0212	0.0000	0.0212	2.1700e-003	0.0000	2.1700e-003			0.3839	2.0000e-005	0.0000	0.3844
<b>Total</b>	<b>8.2000e-004</b>	<b>0.0107</b>			<b>0.0617</b>	<b>1.9000e-004</b>	<b>0.0619</b>	<b>6.3000e-003</b>	<b>1.7000e-004</b>	<b>6.4700e-003</b>			<b>2.3817</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.3824</b>

**3.9 Survey - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.5100e-003	0.0000	4.5100e-003	4.9000e-004	0.0000	4.9000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>			<b>4.5100e-003</b>	<b>0.0000</b>	<b>4.5100e-003</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>4.9000e-004</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	3.4000e-004	6.2900e-003			0.2752	1.6000e-004	0.2754	0.0276	1.4000e-004	0.0277			1.3291	1.0000e-005	0.0000	1.3293
Worker	2.7000e-004	3.2000e-004			0.0994	0.0000	0.0994	0.0100	0.0000	0.0100			0.5021	3.0000e-005	0.0000	0.5026
<b>Total</b>	<b>6.1000e-004</b>	<b>6.6100e-003</b>			<b>0.3746</b>	<b>1.6000e-004</b>	<b>0.3748</b>	<b>0.0376</b>	<b>1.4000e-004</b>	<b>0.0377</b>			<b>1.8312</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8319</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7200e-003	0.0000	1.7200e-003	1.9000e-004	0.0000	1.9000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>			<b>1.7200e-003</b>	<b>0.0000</b>	<b>1.7200e-003</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	3.4000e-004	6.2900e-003			0.0761	1.6000e-004	0.0763	7.6800e-003	1.4000e-004	7.8200e-003			1.3291	1.0000e-005	0.0000	1.3293
Worker	2.7000e-004	3.2000e-004			0.0277	0.0000	0.0277	2.8300e-003	0.0000	2.8400e-003			0.5021	3.0000e-005	0.0000	0.5026
<b>Total</b>	<b>6.1000e-004</b>	<b>6.6100e-003</b>			<b>0.1038</b>	<b>1.6000e-004</b>	<b>0.1040</b>	<b>0.0105</b>	<b>1.4000e-004</b>	<b>0.0107</b>			<b>1.8312</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8319</b>

**3.10 Material Staging Yards - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0318	0.0000	0.0318	3.4400e-003	0.0000	3.4400e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.2198	2.5967				0.1043	0.1043		0.0959	0.0959			252.4007	0.0754	0.0000	253.9831
<b>Total</b>	<b>0.2198</b>	<b>2.5967</b>			<b>0.0318</b>	<b>0.1043</b>	<b>0.1361</b>	<b>3.4400e-003</b>	<b>0.0959</b>	<b>0.0994</b>			<b>252.4007</b>	<b>0.0754</b>	<b>0.0000</b>	<b>253.9831</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.7800e-003	4.5700e-003			1.4151	6.0000e-005	1.4152	0.1424	6.0000e-005	0.1425			7.1470	3.9000e-004	0.0000	7.1551
<b>Total</b>	<b>3.7800e-003</b>	<b>4.5700e-003</b>			<b>1.4151</b>	<b>6.0000e-005</b>	<b>1.4152</b>	<b>0.1424</b>	<b>6.0000e-005</b>	<b>0.1425</b>			<b>7.1470</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>7.1551</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0122	0.0000	0.0122	1.3100e-003	0.0000	1.3100e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.2198	2.5967				0.1043	0.1043		0.0959	0.0959			252.4004	0.0754	0.0000	253.9828
<b>Total</b>	<b>0.2198</b>	<b>2.5967</b>			<b>0.0122</b>	<b>0.1043</b>	<b>0.1164</b>	<b>1.3100e-003</b>	<b>0.0959</b>	<b>0.0972</b>			<b>252.4004</b>	<b>0.0754</b>	<b>0.0000</b>	<b>253.9828</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.7800e-003	4.5700e-003			0.3941	6.0000e-005	0.3942	0.0403	6.0000e-005	0.0404			7.1470	3.9000e-004	0.0000	7.1551
<b>Total</b>	<b>3.7800e-003</b>	<b>4.5700e-003</b>			<b>0.3941</b>	<b>6.0000e-005</b>	<b>0.3942</b>	<b>0.0403</b>	<b>6.0000e-005</b>	<b>0.0404</b>			<b>7.1470</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>7.1551</b>

**3.10 Material Staging Yards - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0318	0.0000	0.0318	3.4400e-003	0.0000	3.4400e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1377	1.5944				0.0635	0.0635		0.0584	0.0584			170.1402	0.0513	0.0000	171.2180
<b>Total</b>	<b>0.1377</b>	<b>1.5944</b>			<b>0.0318</b>	<b>0.0635</b>	<b>0.0953</b>	<b>3.4400e-003</b>	<b>0.0584</b>	<b>0.0619</b>			<b>170.1402</b>	<b>0.0513</b>	<b>0.0000</b>	<b>171.218</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.3300e-003	2.8000e-003			0.9649	4.0000e-005	0.9649	0.0971	4.0000e-005	0.0971			4.7004	2.4000e-004	0.0000	4.7055
<b>Total</b>	<b>2.3300e-003</b>	<b>2.8000e-003</b>			<b>0.9649</b>	<b>4.0000e-005</b>	<b>0.9649</b>	<b>0.0971</b>	<b>4.0000e-005</b>	<b>0.0971</b>			<b>4.7004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.7055</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0122	0.0000	0.0122	1.3100e-003	0.0000	1.3100e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1377	1.5944				0.0635	0.0635		0.0584	0.0584			170.1400	0.0513	0.0000	171.2178
<b>Total</b>	<b>0.1377</b>	<b>1.5944</b>			<b>0.0122</b>	<b>0.0635</b>	<b>0.0757</b>	<b>1.3100e-003</b>	<b>0.0584</b>	<b>0.0597</b>			<b>170.1400</b>	<b>0.0513</b>	<b>0.0000</b>	<b>171.2178</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.3300e-003	2.8000e-003			0.2687	4.0000e-005	0.2687	0.0275	4.0000e-005	0.0275			4.7004	2.4000e-004	0.0000	4.7055
<b>Total</b>	<b>2.3300e-003</b>	<b>2.8000e-003</b>			<b>0.2687</b>	<b>4.0000e-005</b>	<b>0.2687</b>	<b>0.0275</b>	<b>4.0000e-005</b>	<b>0.0275</b>			<b>4.7004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.7055</b>

**3.11 Tree Trimming - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7100e-003	0.0000	3.7100e-003	4.0000e-004	0.0000	4.0000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1503				6.0800e-003	6.0800e-003		5.5900e-003	5.5900e-003			15.4715	4.6200e-003	0.0000	15.5685
<b>Total</b>	<b>0.0138</b>	<b>0.1503</b>			<b>3.7100e-003</b>	<b>6.0800e-003</b>	<b>9.7900e-003</b>	<b>4.0000e-004</b>	<b>5.5900e-003</b>	<b>5.9900e-003</b>			<b>15.4715</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>15.5685</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.0000e-004			0.0614	0.0000	0.0614	6.1800e-003	0.0000	6.1800e-003			0.3101	2.0000e-005	0.0000	0.3105
<b>Total</b>	<b>1.6000e-004</b>	<b>2.0000e-004</b>			<b>0.0614</b>	<b>0.0000</b>	<b>0.0614</b>	<b>6.1800e-003</b>	<b>0.0000</b>	<b>6.1800e-003</b>			<b>0.3101</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3105</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4200e-003	0.0000	1.4200e-003	1.5000e-004	0.0000	1.5000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1503				6.0800e-003	6.0800e-003		5.5900e-003	5.5900e-003			15.4715	4.6200e-003	0.0000	15.5685
<b>Total</b>	<b>0.0138</b>	<b>0.1503</b>			<b>1.4200e-003</b>	<b>6.0800e-003</b>	<b>7.5000e-003</b>	<b>1.5000e-004</b>	<b>5.5900e-003</b>	<b>5.7400e-003</b>			<b>15.4715</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>15.5685</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.0000e-004			0.0171	0.0000	0.0171	1.7500e-003	0.0000	1.7500e-003			0.3101	2.0000e-005	0.0000	0.3105
<b>Total</b>	<b>1.6000e-004</b>	<b>2.0000e-004</b>			<b>0.0171</b>	<b>0.0000</b>	<b>0.0171</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>1.7500e-003</b>			<b>0.3101</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3105</b>

**3.12 R/W Clearing - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0239	0.0000	0.0239	2.5800e-003	0.0000	2.5800e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0323	0.3931				0.0154	0.0154		0.0141	0.0141			38.4463	0.0115	0.0000	38.6873
<b>Total</b>	<b>0.0323</b>	<b>0.3931</b>			<b>0.0239</b>	<b>0.0154</b>	<b>0.0392</b>	<b>2.5800e-003</b>	<b>0.0141</b>	<b>0.0167</b>			<b>38.4463</b>	<b>0.0115</b>	<b>0.0000</b>	<b>38.6873</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	4.7000e-004			0.1462	1.0000e-005	0.1462	0.0147	1.0000e-005	0.0147			0.7383	4.0000e-005	0.0000	0.7392
<b>Total</b>	<b>3.9000e-004</b>	<b>4.7000e-004</b>			<b>0.1462</b>	<b>1.0000e-005</b>	<b>0.1462</b>	<b>0.0147</b>	<b>1.0000e-005</b>	<b>0.0147</b>			<b>0.7383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7392</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.1300e-003	0.0000	9.1300e-003	9.9000e-004	0.0000	9.9000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0323	0.3931				0.0154	0.0154		0.0141	0.0141			38.4463	0.0115	0.0000	38.6873
<b>Total</b>	<b>0.0323</b>	<b>0.3931</b>			<b>9.1300e-003</b>	<b>0.0154</b>	<b>0.0245</b>	<b>9.9000e-004</b>	<b>0.0141</b>	<b>0.0151</b>			<b>38.4463</b>	<b>0.0115</b>	<b>0.0000</b>	<b>38.6873</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	4.7000e-004			0.0407	1.0000e-005	0.0407	4.1700e-003	1.0000e-005	4.1700e-003			0.7383	4.0000e-005	0.0000	0.7392
<b>Total</b>	<b>3.9000e-004</b>	<b>4.7000e-004</b>			<b>0.0407</b>	<b>1.0000e-005</b>	<b>0.0407</b>	<b>4.1700e-003</b>	<b>1.0000e-005</b>	<b>4.1700e-003</b>			<b>0.7383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7392</b>

**3.13 Retaining Wall Structures - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.2789	14.9169				0.6049	0.6049		0.5565	0.5565			1,526.1285	0.4556	0.0000	1,535.6963
<b>Total</b>	<b>1.2789</b>	<b>14.9169</b>			<b>0.0000</b>	<b>0.6049</b>	<b>0.6049</b>	<b>0.0000</b>	<b>0.5565</b>	<b>0.5565</b>			<b>1,526.1285</b>	<b>0.4556</b>	<b>0.0000</b>	<b>1,535.70</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0143	0.2861			12.7498	7.1500e-003	12.7570	1.2769	6.5800e-003	1.2835			61.1702	3.7000e-004	0.0000	61.1780
Worker	0.0246	0.0298			9.2099	4.2000e-004	9.2104	0.9268	3.8000e-004	0.9271			46.5145	2.5200e-003	0.0000	46.5676
<b>Total</b>	<b>0.0388</b>	<b>0.3158</b>			<b>21.9598</b>	<b>7.5700e-003</b>	<b>21.9673</b>	<b>2.2036</b>	<b>6.9600e-003</b>	<b>2.2106</b>			<b>107.6847</b>	<b>2.8900e-003</b>	<b>0.0000</b>	<b>107.7455</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.2789	14.9169				0.6049	0.6049		0.5565	0.5565			1,526.1267	0.4556	0.0000	1,535.6945
<b>Total</b>	<b>1.2789</b>	<b>14.9169</b>			<b>0.0000</b>	<b>0.6049</b>	<b>0.6049</b>	<b>0.0000</b>	<b>0.5565</b>	<b>0.5565</b>			<b>1,526.1267</b>	<b>0.4556</b>	<b>0.0000</b>	<b>1,535.69</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0143	0.2861			3.5271	7.1500e-003	3.5342	0.3558	6.5800e-003	0.3624			61.1702	3.7000e-004	0.0000	61.1780
Worker	0.0246	0.0298			2.5648	4.2000e-004	2.5653	0.2624	3.8000e-004	0.2628			46.5145	2.5200e-003	0.0000	46.5676
<b>Total</b>	<b>0.0388</b>	<b>0.3158</b>			<b>6.0919</b>	<b>7.5700e-003</b>	<b>6.0995</b>	<b>0.6183</b>	<b>6.9600e-003</b>	<b>0.6252</b>			<b>107.6847</b>	<b>2.8900e-003</b>	<b>0.0000</b>	<b>107.7455</b>

**3.13 Retaining Wall Structures - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0502	0.5732				0.0230	0.0230		0.0212	0.0212			64.6490	0.0195	0.0000	65.0585
<b>Total</b>	<b>0.0502</b>	<b>0.5732</b>			<b>0.0000</b>	<b>0.0230</b>	<b>0.0230</b>	<b>0.0000</b>	<b>0.0212</b>	<b>0.0212</b>			<b>64.6490</b>	<b>0.0195</b>	<b>0.0000</b>	<b>65.0585</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	0.0106			0.5464	2.7000e-004	0.5467	0.0547	2.5000e-004	0.0550			2.5974	1.0000e-005	0.0000	2.5977
Worker	9.5000e-004	1.1500e-003			0.3947	2.0000e-005	0.3947	0.0397	2.0000e-005	0.0397			1.9229	1.0000e-004	0.0000	1.9250
<b>Total</b>	<b>1.4900e-003</b>	<b>0.0117</b>			<b>0.9411</b>	<b>2.9000e-004</b>	<b>0.9414</b>	<b>0.0944</b>	<b>2.7000e-004</b>	<b>0.0947</b>			<b>4.5203</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>4.5227</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0502	0.5732				0.0230	0.0230		0.0212	0.0212			64.6489	0.0195	0.0000	65.0584
<b>Total</b>	<b>0.0502</b>	<b>0.5732</b>			<b>0.0000</b>	<b>0.0230</b>	<b>0.0230</b>	<b>0.0000</b>	<b>0.0212</b>	<b>0.0212</b>			<b>64.6489</b>	<b>0.0195</b>	<b>0.0000</b>	<b>65.0584</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	0.0106			0.1512	2.7000e-004	0.1514	0.0153	2.5000e-004	0.0155			2.5974	1.0000e-005	0.0000	2.5977
Worker	9.5000e-004	1.1500e-003			0.1099	2.0000e-005	0.1099	0.0113	2.0000e-005	0.0113			1.9229	1.0000e-004	0.0000	1.9250
<b>Total</b>	<b>1.4900e-003</b>	<b>0.0117</b>			<b>0.2611</b>	<b>2.9000e-004</b>	<b>0.2614</b>	<b>0.0265</b>	<b>2.7000e-004</b>	<b>0.0268</b>			<b>4.5203</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>4.5227</b>

**3.14 Carpinteria Civil - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.5400e-003	0.1108				5.3200e-003	5.3200e-003		4.9000e-003	4.9000e-003			11.1084	3.3200e-003	0.0000	11.1781
<b>Total</b>	<b>9.5400e-003</b>	<b>0.1108</b>				<b>5.3200e-003</b>	<b>5.3200e-003</b>		<b>4.9000e-003</b>	<b>4.9000e-003</b>			<b>11.1084</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>11.1781</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	4.7000e-004			0.1462	1.0000e-005	0.1462	0.0147	1.0000e-005	0.0147			0.7383	4.0000e-005	0.0000	0.7392
<b>Total</b>	<b>3.9000e-004</b>	<b>4.7000e-004</b>			<b>0.1462</b>	<b>1.0000e-005</b>	<b>0.1462</b>	<b>0.0147</b>	<b>1.0000e-005</b>	<b>0.0147</b>			<b>0.7383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7392</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.5400e-003	0.1108				5.3200e-003	5.3200e-003		4.9000e-003	4.9000e-003			11.1084	3.3200e-003	0.0000	11.1781
<b>Total</b>	<b>9.5400e-003</b>	<b>0.1108</b>				<b>5.3200e-003</b>	<b>5.3200e-003</b>		<b>4.9000e-003</b>	<b>4.9000e-003</b>			<b>11.1084</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>11.1781</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	4.7000e-004			0.0407	1.0000e-005	0.0407	4.1700e-003	1.0000e-005	4.1700e-003			0.7383	4.0000e-005	0.0000	0.7392
<b>Total</b>	<b>3.9000e-004</b>	<b>4.7000e-004</b>			<b>0.0407</b>	<b>1.0000e-005</b>	<b>0.0407</b>	<b>4.1700e-003</b>	<b>1.0000e-005</b>	<b>4.1700e-003</b>			<b>0.7383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7392</b>

**3.15 Santa Clara Civil - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4400e-003	0.0676				3.6500e-003	3.6500e-003		3.3600e-003	3.3600e-003			5.8624	1.7500e-003	0.0000	5.8991
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0676</b>				<b>3.6500e-003</b>	<b>3.6500e-003</b>		<b>3.3600e-003</b>	<b>3.3600e-003</b>			<b>5.8624</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>5.8991</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	2.8000e-004			0.0877	0.0000	0.0877	8.8300e-003	0.0000	8.8300e-003			0.4430	2.0000e-005	0.0000	0.4435
<b>Total</b>	<b>2.3000e-004</b>	<b>2.8000e-004</b>			<b>0.0877</b>	<b>0.0000</b>	<b>0.0877</b>	<b>8.8300e-003</b>	<b>0.0000</b>	<b>8.8300e-003</b>			<b>0.4430</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4435</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4400e-003	0.0676				3.6500e-003	3.6500e-003		3.3600e-003	3.3600e-003			5.8624	1.7500e-003	0.0000	5.8991
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0676</b>				<b>3.6500e-003</b>	<b>3.6500e-003</b>		<b>3.3600e-003</b>	<b>3.3600e-003</b>			<b>5.8624</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>5.8991</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	2.8000e-004			0.0244	0.0000	0.0244	2.5000e-003	0.0000	2.5000e-003			0.4430	2.0000e-005	0.0000	0.4435
<b>Total</b>	<b>2.3000e-004</b>	<b>2.8000e-004</b>			<b>0.0244</b>	<b>0.0000</b>	<b>0.0244</b>	<b>2.5000e-003</b>	<b>0.0000</b>	<b>2.5000e-003</b>			<b>0.4430</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4435</b>

**3.16 Roads and Landing Work - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0418	0.0000	0.0418	4.5100e-003	0.0000	4.5100e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0697	0.7760				0.0344	0.0344		0.0316	0.0316			73.2695	0.0219	0.0000	73.7289
<b>Total</b>	<b>0.0697</b>	<b>0.7760</b>			<b>0.0418</b>	<b>0.0344</b>	<b>0.0761</b>	<b>4.5100e-003</b>	<b>0.0316</b>	<b>0.0361</b>			<b>73.2695</b>	<b>0.0219</b>	<b>0.0000</b>	<b>73.7289</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	0.0101			0.4533	2.5000e-004	0.4536	0.0454	2.3000e-004	0.0456			2.1678	1.0000e-005	0.0000	2.1681
Worker	5.5000e-004	6.6000e-004			0.2047	1.0000e-005	0.2047	0.0206	1.0000e-005	0.0206			1.0337	6.0000e-005	0.0000	1.0348
<b>Total</b>	<b>1.0300e-003</b>	<b>0.0107</b>			<b>0.6580</b>	<b>2.6000e-004</b>	<b>0.6583</b>	<b>0.0660</b>	<b>2.4000e-004</b>	<b>0.0662</b>			<b>3.2015</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>3.203</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0160	0.0000	0.0160	1.7200e-003	0.0000	1.7200e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0697	0.7760				0.0344	0.0344		0.0316	0.0316			73.2694	0.0219	0.0000	73.7288
<b>Total</b>	<b>0.0697</b>	<b>0.7760</b>			<b>0.0160</b>	<b>0.0344</b>	<b>0.0504</b>	<b>1.7200e-003</b>	<b>0.0316</b>	<b>0.0334</b>			<b>73.2694</b>	<b>0.0219</b>	<b>0.0000</b>	<b>73.7288</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	0.0101			0.1254	2.5000e-004	0.1257	0.0127	2.3000e-004	0.0129			2.1678	1.0000e-005	0.0000	2.1681
Worker	5.5000e-004	6.6000e-004			0.0570	1.0000e-005	0.0570	5.8300e-003	1.0000e-005	5.8400e-003			1.0337	6.0000e-005	0.0000	1.0348
<b>Total</b>	<b>1.0300e-003</b>	<b>0.0107</b>			<b>0.1824</b>	<b>2.6000e-004</b>	<b>0.1827</b>	<b>0.0185</b>	<b>2.4000e-004</b>	<b>0.0187</b>			<b>3.2015</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>3.203</b>

**3.17 Guard Structure Installation - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0195	0.2295				9.2800e-003	9.2800e-003		8.5900e-003	8.5900e-003			22.5624	6.6000e-003	0.0000	22.7011
<b>Total</b>	<b>0.0195</b>	<b>0.2295</b>				<b>9.2800e-003</b>	<b>9.2800e-003</b>		<b>8.5900e-003</b>	<b>8.5900e-003</b>			<b>22.5624</b>	<b>6.6000e-003</b>	<b>0.0000</b>	<b>22.7011</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-004	4.4400e-003			0.1943	1.1000e-004	0.1944	0.0195	1.0000e-004	0.0196			0.9382	1.0000e-005	0.0000	0.9383
Worker	2.8000e-004	3.4000e-004			0.1053	0.0000	0.1053	0.0106	0.0000	0.0106			0.5316	3.0000e-005	0.0000	0.5322
<b>Total</b>	<b>5.2000e-004</b>	<b>4.7800e-003</b>			<b>0.2995</b>	<b>1.1000e-004</b>	<b>0.2997</b>	<b>0.0301</b>	<b>1.0000e-004</b>	<b>0.0302</b>			<b>1.4698</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.4705</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0195	0.2295				9.2800e-003	9.2800e-003		8.5900e-003	8.5900e-003			22.5624	6.6000e-003	0.0000	22.7010
<b>Total</b>	<b>0.0195</b>	<b>0.2295</b>				<b>9.2800e-003</b>	<b>9.2800e-003</b>		<b>8.5900e-003</b>	<b>8.5900e-003</b>			<b>22.5624</b>	<b>6.6000e-003</b>	<b>0.0000</b>	<b>22.7010</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-004	4.4400e-003			0.0538	1.1000e-004	0.0539	5.4200e-003	1.0000e-004	5.5200e-003			0.9382	1.0000e-005	0.0000	0.9383
Worker	2.8000e-004	3.4000e-004			0.0293	0.0000	0.0293	3.0000e-003	0.0000	3.0000e-003			0.5316	3.0000e-005	0.0000	0.5322
<b>Total</b>	<b>5.2000e-004</b>	<b>4.7800e-003</b>			<b>0.0831</b>	<b>1.1000e-004</b>	<b>0.0832</b>	<b>8.4200e-003</b>	<b>1.0000e-004</b>	<b>8.5200e-003</b>			<b>1.4698</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.4705</b>

**3.18 Carpinteria Electrical - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0990	1.1696				0.0535	0.0535		0.0492	0.0492			91.8970	0.0274	0.0000	92.4732
<b>Total</b>	<b>0.0990</b>	<b>1.1696</b>			<b>0.0000</b>	<b>0.0535</b>	<b>0.0535</b>	<b>0.0000</b>	<b>0.0492</b>	<b>0.0492</b>			<b>91.8970</b>	<b>0.0274</b>	<b>0.0000</b>	<b>92.4732</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.1500e-003	6.2300e-003			1.9297	9.0000e-005	1.9298	0.1942	8.0000e-005	0.1943			9.7459	5.3000e-004	0.0000	9.7570
<b>Total</b>	<b>5.1500e-003</b>	<b>6.2300e-003</b>			<b>1.9297</b>	<b>9.0000e-005</b>	<b>1.9298</b>	<b>0.1942</b>	<b>8.0000e-005</b>	<b>0.1943</b>			<b>9.7459</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>9.757</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0990	1.1696				0.0535	0.0535		0.0492	0.0492			91.8969	0.0274	0.0000	92.4730
<b>Total</b>	<b>0.0990</b>	<b>1.1696</b>			<b>0.0000</b>	<b>0.0535</b>	<b>0.0535</b>	<b>0.0000</b>	<b>0.0492</b>	<b>0.0492</b>			<b>91.8969</b>	<b>0.0274</b>	<b>0.0000</b>	<b>92.473</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.1500e-003	6.2300e-003			0.5374	9.0000e-005	0.5375	0.0550	8.0000e-005	0.0551			9.7459	5.3000e-004	0.0000	9.7570
<b>Total</b>	<b>5.1500e-003</b>	<b>6.2300e-003</b>			<b>0.5374</b>	<b>9.0000e-005</b>	<b>0.5375</b>	<b>0.0550</b>	<b>8.0000e-005</b>	<b>0.0551</b>			<b>9.7459</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>9.757</b>

**3.19 Santa Clara Electrical - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0364	0.4325				0.0200	0.0200		0.0184	0.0184			36.8847	0.0110	0.0000	37.1160
<b>Total</b>	<b>0.0364</b>	<b>0.4325</b>			<b>0.0000</b>	<b>0.0200</b>	<b>0.0200</b>	<b>0.0000</b>	<b>0.0184</b>	<b>0.0184</b>			<b>36.8847</b>	<b>0.0110</b>	<b>0.0000</b>	<b>37.116</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.9100e-003	2.3100e-003			0.7163	3.0000e-005	0.7164	0.0721	3.0000e-005	0.0721			3.6178	2.0000e-004	0.0000	3.6219
<b>Total</b>	<b>1.9100e-003</b>	<b>2.3100e-003</b>			<b>0.7163</b>	<b>3.0000e-005</b>	<b>0.7164</b>	<b>0.0721</b>	<b>3.0000e-005</b>	<b>0.0721</b>			<b>3.6178</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>3.6219</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0364	0.4325				0.0200	0.0200		0.0184	0.0184			36.8847	0.0110	0.0000	37.1159
<b>Total</b>	<b>0.0364</b>	<b>0.4325</b>			<b>0.0000</b>	<b>0.0200</b>	<b>0.0200</b>	<b>0.0000</b>	<b>0.0184</b>	<b>0.0184</b>			<b>36.8847</b>	<b>0.0110</b>	<b>0.0000</b>	<b>37.1159</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.9100e-003	2.3100e-003			0.1995	3.0000e-005	0.1995	0.0204	3.0000e-005	0.0204			3.6178	2.0000e-004	0.0000	3.6219
<b>Total</b>	<b>1.9100e-003</b>	<b>2.3100e-003</b>			<b>0.1995</b>	<b>3.0000e-005</b>	<b>0.1995</b>	<b>0.0204</b>	<b>3.0000e-005</b>	<b>0.0204</b>			<b>3.6178</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>3.6219</b>

**3.20 Remove Existing Conductor - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1542	1.8448				0.0741	0.0741		0.0682	0.0682			172.9099	0.0516	0.0000	173.9940
<b>Total</b>	<b>0.1542</b>	<b>1.8448</b>				<b>0.0741</b>	<b>0.0741</b>		<b>0.0682</b>	<b>0.0682</b>			<b>172.9099</b>	<b>0.0516</b>	<b>0.0000</b>	<b>173.994</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	6.4000e-004	0.0119			0.5181	2.9000e-004	0.5184	0.0519	2.7000e-004	0.0522			2.5019	2.0000e-005	0.0000	2.5022
Worker	2.5000e-003	3.0200e-003			0.9356	4.0000e-005	0.9357	0.0942	4.0000e-005	0.0942			4.7253	2.6000e-004	0.0000	4.7307
<b>Total</b>	<b>3.1400e-003</b>	<b>0.0149</b>			<b>1.4537</b>	<b>3.3000e-004</b>	<b>1.4540</b>	<b>0.1460</b>	<b>3.1000e-004</b>	<b>0.1463</b>			<b>7.2272</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>7.2329</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1542	1.8448				0.0741	0.0741		0.0682	0.0682			172.9097	0.0516	0.0000	173.9937
<b>Total</b>	<b>0.1542</b>	<b>1.8448</b>				<b>0.0741</b>	<b>0.0741</b>		<b>0.0682</b>	<b>0.0682</b>			<b>172.9097</b>	<b>0.0516</b>	<b>0.0000</b>	<b>173.9937</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	6.4000e-004	0.0119			0.1433	2.9000e-004	0.1436	0.0145	2.7000e-004	0.0147			2.5019	2.0000e-005	0.0000	2.5022
Worker	2.5000e-003	3.0200e-003			0.2606	4.0000e-005	0.2606	0.0267	4.0000e-005	0.0267			4.7253	2.6000e-004	0.0000	4.7307
<b>Total</b>	<b>3.1400e-003</b>	<b>0.0149</b>			<b>0.4039</b>	<b>3.3000e-004</b>	<b>0.4042</b>	<b>0.0411</b>	<b>3.1000e-004</b>	<b>0.0414</b>			<b>7.2272</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>7.2329</b>

**3.21 Install TSP foundation - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1822	2.2040				0.0906	0.0906		0.0833	0.0833			217.5932	0.0650	0.0000	218.9574
<b>Total</b>	<b>0.1822</b>	<b>2.2040</b>				<b>0.0906</b>	<b>0.0906</b>		<b>0.0833</b>	<b>0.0833</b>			<b>217.5932</b>	<b>0.0650</b>	<b>0.0000</b>	<b>218.9574</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-003	0.0608			2.7362	1.5300e-003	2.7377	0.2740	1.4100e-003	0.2754			13.0845	8.0000e-005	0.0000	13.0862
Worker	3.9600e-003	4.7900e-003			1.4824	7.0000e-005	1.4824	0.1492	6.0000e-005	0.1492			7.4866	4.1000e-004	0.0000	7.4952
<b>Total</b>	<b>6.8600e-003</b>	<b>0.0656</b>			<b>4.2185</b>	<b>1.6000e-003</b>	<b>4.2201</b>	<b>0.4232</b>	<b>1.4700e-003</b>	<b>0.4247</b>			<b>20.5711</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>20.5813</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1822	2.2040				0.0906	0.0906		0.0833	0.0833			217.5929	0.0650	0.0000	218.9571
<b>Total</b>	<b>0.1822</b>	<b>2.2040</b>				<b>0.0906</b>	<b>0.0906</b>		<b>0.0833</b>	<b>0.0833</b>			<b>217.5929</b>	<b>0.0650</b>	<b>0.0000</b>	<b>218.9571</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-003	0.0608			0.7569	1.5300e-003	0.7585	0.0764	1.4100e-003	0.0778			13.0845	8.0000e-005	0.0000	13.0862

Worker	3.9600e-003	4.7900e-003			0.4128	7.0000e-005	0.4129	0.0422	6.0000e-005	0.0423			7.4866	4.1000e-004	0.0000	7.4952
<b>Total</b>	<b>6.8600e-003</b>	<b>0.0656</b>			<b>1.1697</b>	<b>1.6000e-003</b>	<b>1.1713</b>	<b>0.1186</b>	<b>1.4700e-003</b>	<b>0.1201</b>			<b>20.5711</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>20.5813</b>

### 3.22 TSP Haul - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0119	0.0000	0.0119	1.2900e-003	0.0000	1.2900e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0808	0.9211				0.0432	0.0432		0.0398	0.0398			75.0704	0.0224	0.0000	75.5410
<b>Total</b>	<b>0.0808</b>	<b>0.9211</b>			<b>0.0119</b>	<b>0.0432</b>	<b>0.0551</b>	<b>1.2900e-003</b>	<b>0.0398</b>	<b>0.0410</b>			<b>75.0704</b>	<b>0.0224</b>	<b>0.0000</b>	<b>75.541</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	7.7000e-004	0.0162			0.7286	4.1000e-004	0.7290	0.0730	3.8000e-004	0.0733			3.4840	2.0000e-005	0.0000	3.4845
Worker	7.0000e-004	8.5000e-004			0.2631	1.0000e-005	0.2632	0.0265	1.0000e-005	0.0265			1.3290	7.0000e-005	0.0000	1.3305
<b>Total</b>	<b>1.4700e-003</b>	<b>0.0170</b>			<b>0.9917</b>	<b>4.2000e-004</b>	<b>0.9921</b>	<b>0.0994</b>	<b>3.9000e-004</b>	<b>0.0998</b>			<b>4.8130</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>4.815</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.5600e-003	0.0000	4.5600e-003	4.9000e-004	0.0000	4.9000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0808	0.9211				0.0432	0.0432		0.0398	0.0398			75.0703	0.0224	0.0000	75.5409
<b>Total</b>	<b>0.0808</b>	<b>0.9211</b>			<b>4.5600e-003</b>	<b>0.0432</b>	<b>0.0478</b>	<b>4.9000e-004</b>	<b>0.0398</b>	<b>0.0402</b>			<b>75.0703</b>	<b>0.0224</b>	<b>0.0000</b>	<b>75.5409</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	7.7000e-004	0.0162			0.2016	4.1000e-004	0.2020	0.0203	3.8000e-004	0.0207			3.4840	2.0000e-005	0.0000	3.4845
Worker	7.0000e-004	8.5000e-004			0.0733	1.0000e-005	0.0733	7.5000e-003	1.0000e-005	7.5100e-003			1.3290	7.0000e-005	0.0000	1.3305
<b>Total</b>	<b>1.4700e-003</b>	<b>0.0170</b>			<b>0.2748</b>	<b>4.2000e-004</b>	<b>0.2752</b>	<b>0.0278</b>	<b>3.9000e-004</b>	<b>0.0282</b>			<b>4.8130</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>4.815</b>

### 3.23 Casitas Civil - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	9.5400e-003	0.1108				5.3200e-003	5.3200e-003		4.9000e-003	4.9000e-003			11.1084	3.3200e-003	0.0000	11.1781
<b>Total</b>	<b>9.5400e-003</b>	<b>0.1108</b>				<b>5.3200e-003</b>	<b>5.3200e-003</b>		<b>4.9000e-003</b>	<b>4.9000e-003</b>			<b>11.1084</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>11.1781</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	4.3000e-004			0.1316	1.0000e-005	0.1316	0.0132	1.0000e-005	0.0132			0.6645	4.0000e-005	0.0000	0.6653
<b>Total</b>	<b>3.5000e-004</b>	<b>4.3000e-004</b>			<b>0.1316</b>	<b>1.0000e-005</b>	<b>0.1316</b>	<b>0.0132</b>	<b>1.0000e-005</b>	<b>0.0132</b>			<b>0.6645</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6653</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.5400e-003	0.1108				5.3200e-003	5.3200e-003		4.9000e-003	4.9000e-003			11.1084	3.3200e-003	0.0000	11.1781
<b>Total</b>	<b>9.5400e-003</b>	<b>0.1108</b>				<b>5.3200e-003</b>	<b>5.3200e-003</b>		<b>4.9000e-003</b>	<b>4.9000e-003</b>			<b>11.1084</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>11.1781</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	4.3000e-004			0.0366	1.0000e-005	0.0367	3.7500e-003	1.0000e-005	3.7500e-003			0.6645	4.0000e-005	0.0000	0.6653
<b>Total</b>	<b>3.5000e-004</b>	<b>4.3000e-004</b>			<b>0.0366</b>	<b>1.0000e-005</b>	<b>0.0367</b>	<b>3.7500e-003</b>	<b>1.0000e-005</b>	<b>3.7500e-003</b>			<b>0.6645</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6653</b>

**3.24 Install Conductor - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0111	0.0000	0.0111	1.2000e-003	0.0000	1.2000e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.2978	3.5453				0.1404	0.1404		0.1292	0.1292			342.9453	0.1024	0.0000	345.0953
<b>Total</b>	<b>0.2978</b>	<b>3.5453</b>			<b>0.0111</b>	<b>0.1404</b>	<b>0.1516</b>	<b>1.2000e-003</b>	<b>0.1292</b>	<b>0.1304</b>			<b>342.9453</b>	<b>0.1024</b>	<b>0.0000</b>	<b>345.0953</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.2600e-003	0.0233			1.0200	5.7000e-004	1.0206	0.1022	5.3000e-004	0.1027			4.9256	3.0000e-005	0.0000	4.9262
Worker	3.2800e-003	3.9700e-003			1.2280	6.0000e-005	1.2281	0.1236	5.0000e-005	0.1236			6.2019	3.4000e-004	0.0000	6.2090
<b>Total</b>	<b>4.5400e-003</b>	<b>0.0273</b>			<b>2.2480</b>	<b>6.3000e-004</b>	<b>2.2486</b>	<b>0.2257</b>	<b>5.8000e-004</b>	<b>0.2263</b>			<b>11.1275</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>11.1352</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.2600e-003	0.0000	4.2600e-003	4.6000e-004	0.0000	4.6000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.2978	3.5453				0.1404	0.1404		0.1292	0.1292			342.9449	0.1024	0.0000	345.0949
<b>Total</b>	<b>0.2978</b>	<b>3.5453</b>			<b>4.2600e-003</b>	<b>0.1404</b>	<b>0.1447</b>	<b>4.6000e-004</b>	<b>0.1292</b>	<b>0.1296</b>			<b>342.9449</b>	<b>0.1024</b>	<b>0.0000</b>	<b>345.0949</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.2600e-003	0.0233			0.2822	5.7000e-004	0.2827	0.0285	5.3000e-004	0.0290			4.9256	3.0000e-005	0.0000	4.9262
Worker	3.2800e-003	3.9700e-003			0.3420	6.0000e-005	0.3420	0.0350	5.0000e-005	0.0350			6.2019	3.4000e-004	0.0000	6.2090
<b>Total</b>	<b>4.5400e-003</b>	<b>0.0273</b>			<b>0.6241</b>	<b>6.3000e-004</b>	<b>0.6248</b>	<b>0.0635</b>	<b>5.8000e-004</b>	<b>0.0640</b>			<b>11.1275</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>11.1352</b>



### 3.25 TSP Assembly - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0236	0.0000	0.0236	2.5500e-003	0.0000	2.5500e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0862	0.9810				0.0432	0.0432		0.0404	0.0404			87.5530	0.0247	0.0000	88.0711
<b>Total</b>	<b>0.0862</b>	<b>0.9810</b>			<b>0.0236</b>	<b>0.0432</b>	<b>0.0668</b>	<b>2.5500e-003</b>	<b>0.0404</b>	<b>0.0429</b>			<b>87.5530</b>	<b>0.0247</b>	<b>0.0000</b>	<b>88.0711</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.5300e-003	0.0320			1.4409	8.1000e-004	1.4417	0.1443	7.4000e-004	0.1451			6.8906	4.0000e-005	0.0000	6.8915
Worker	2.7800e-003	3.3600e-003			1.0409	5.0000e-005	1.0409	0.1047	4.0000e-005	0.1048			5.2569	2.9000e-004	0.0000	5.2629
<b>Total</b>	<b>4.3100e-003</b>	<b>0.0354</b>			<b>2.4818</b>	<b>8.6000e-004</b>	<b>2.4827</b>	<b>0.2491</b>	<b>7.8000e-004</b>	<b>0.2498</b>			<b>12.1475</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>12.1544</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Fugitive Dust					9.0300e-003	0.0000	9.0300e-003	9.7000e-004	0.0000	9.7000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0862	0.9810				0.0432	0.0432		0.0404	0.0404			87.5529	0.0247	0.0000	88.0709
<b>Total</b>	<b>0.0862</b>	<b>0.9810</b>			<b>9.0300e-003</b>	<b>0.0432</b>	<b>0.0523</b>	<b>9.7000e-004</b>	<b>0.0404</b>	<b>0.0413</b>			<b>87.5529</b>	<b>0.0247</b>	<b>0.0000</b>	<b>88.0709</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.5300e-003	0.0320			0.3986	8.1000e-004	0.3994	0.0402	7.4000e-004	0.0410			6.8906	4.0000e-005	0.0000	6.8915
Worker	2.7800e-003	3.3600e-003			0.2899	5.0000e-005	0.2899	0.0297	4.0000e-005	0.0297			5.2569	2.9000e-004	0.0000	5.2629
<b>Total</b>	<b>4.3100e-003</b>	<b>0.0354</b>			<b>0.6885</b>	<b>8.6000e-004</b>	<b>0.6893</b>	<b>0.0699</b>	<b>7.8000e-004</b>	<b>0.0707</b>			<b>12.1475</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>12.1544</b>

**3.26 TSP Erection - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0236	0.0000	0.0236	2.5500e-003	0.0000	2.5500e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.9089				0.0389	0.0389		0.0362	0.0362			80.8357	0.0232	0.0000	81.3228
<b>Total</b>	<b>0.0779</b>	<b>0.9089</b>			<b>0.0236</b>	<b>0.0389</b>	<b>0.0625</b>	<b>2.5500e-003</b>	<b>0.0362</b>	<b>0.0387</b>			<b>80.8357</b>	<b>0.0232</b>	<b>0.0000</b>	<b>81.3228</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	3.3900e-003	0.0630			2.7524	1.5500e-003	2.7539	0.2757	1.4300e-003	0.2771			13.2912	8.0000e-005	0.0000	13.2929
Worker	2.6500e-003	3.2100e-003			0.9941	5.0000e-005	0.9941	0.1000	4.0000e-005	0.1001			5.0206	2.7000e-004	0.0000	5.0263
<b>Total</b>	<b>6.0400e-003</b>	<b>0.0662</b>			<b>3.7464</b>	<b>1.6000e-003</b>	<b>3.7480</b>	<b>0.3757</b>	<b>1.4700e-003</b>	<b>0.3771</b>			<b>18.3118</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>18.3192</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0300e-003	0.0000	9.0300e-003	9.7000e-004	0.0000	9.7000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.9089				0.0389	0.0389		0.0362	0.0362			80.8356	0.0232	0.0000	81.3227
<b>Total</b>	<b>0.0779</b>	<b>0.9089</b>			<b>9.0300e-003</b>	<b>0.0389</b>	<b>0.0479</b>	<b>9.7000e-004</b>	<b>0.0362</b>	<b>0.0371</b>			<b>80.8356</b>	<b>0.0232</b>	<b>0.0000</b>	<b>81.3227</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000
Vendor	3.3900e-003	0.0630			0.7614	1.5500e-003	0.7630	0.0768	1.4300e-003	0.0782			13.2912	8.0000e-005	0.0000	13.2929
Worker	2.6500e-003	3.2100e-003			0.2768	5.0000e-005	0.2769	0.0283	4.0000e-005	0.0284			5.0206	2.7000e-004	0.0000	5.0263
<b>Total</b>	<b>6.0400e-003</b>	<b>0.0662</b>			<b>1.0382</b>	<b>1.6000e-003</b>	<b>1.0398</b>	<b>0.1051</b>	<b>1.4700e-003</b>	<b>0.1066</b>			<b>18.3118</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>18.3192</b>

**3.27 Casitas Electrical - 2015**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0259	0.3046				0.0140	0.0140		0.0128	0.0128			27.1447	8.1000e-003	0.0000	27.3149
<b>Total</b>	<b>0.0259</b>	<b>0.3046</b>			<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>0.0000</b>	<b>0.0128</b>	<b>0.0128</b>			<b>27.1447</b>	<b>8.1000e-003</b>	<b>0.0000</b>	<b>27.3149</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.8900e-003			0.5848	3.0000e-005	0.5848	0.0588	2.0000e-005	0.0589			2.9533	1.6000e-004	0.0000	2.9567

<b>Total</b>	<b>1.5600e-003</b>	<b>1.8900e-003</b>			<b>0.5848</b>	<b>3.0000e-005</b>	<b>0.5848</b>	<b>0.0588</b>	<b>2.0000e-005</b>	<b>0.0589</b>			<b>2.9533</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.9567</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0259	0.3046				0.0140	0.0140		0.0128	0.0128			27.1446	8.1000e-003	0.0000	27.3148
<b>Total</b>	<b>0.0259</b>	<b>0.3046</b>			<b>0.0000</b>	<b>0.0140</b>	<b>0.0140</b>	<b>0.0000</b>	<b>0.0128</b>	<b>0.0128</b>			<b>27.1446</b>	<b>8.1000e-003</b>	<b>0.0000</b>	<b>27.3148</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.8900e-003			0.1629	3.0000e-005	0.1629	0.0167	2.0000e-005	0.0167			2.9533	1.6000e-004	0.0000	2.9567
<b>Total</b>	<b>1.5600e-003</b>	<b>1.8900e-003</b>			<b>0.1629</b>	<b>3.0000e-005</b>	<b>0.1629</b>	<b>0.0167</b>	<b>2.0000e-005</b>	<b>0.0167</b>			<b>2.9533</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.9567</b>

**3.28 LST Removal - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.9500e-003	0.0000	7.9500e-003	8.6000e-004	0.0000	8.6000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1480	1.6366				0.0765	0.0765		0.0717	0.0717			133.6108	0.0368	0.0000	134.3832
<b>Total</b>	<b>0.1480</b>	<b>1.6366</b>			<b>7.9500e-003</b>	<b>0.0765</b>	<b>0.0845</b>	<b>8.6000e-004</b>	<b>0.0717</b>	<b>0.0725</b>			<b>133.6108</b>	<b>0.0368</b>	<b>0.0000</b>	<b>134.3832</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	2.8100e-003	0.0522			2.2828	1.2900e-003	2.2841	0.2286	1.1800e-003	0.2298			11.0239	7.0000e-005	0.0000	11.0253
Worker	4.4000e-003	5.3300e-003			1.6490	8.0000e-005	1.6491	0.1659	7.0000e-005	0.1660			8.3283	4.5000e-004	0.0000	8.3378
<b>Total</b>	<b>7.2100e-003</b>	<b>0.0575</b>			<b>3.9319</b>	<b>1.3700e-003</b>	<b>3.9332</b>	<b>0.3946</b>	<b>1.2500e-003</b>	<b>0.3958</b>			<b>19.3522</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>19.3631</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0400e-003	0.0000	3.0400e-003	3.3000e-004	0.0000	3.3000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1480	1.6366				0.0765	0.0765		0.0717	0.0717			133.6106	0.0368	0.0000	134.3830

<b>Total</b>	<b>0.1480</b>	<b>1.6366</b>			<b>3.0400e-003</b>	<b>0.0765</b>	<b>0.0796</b>	<b>3.3000e-004</b>	<b>0.0717</b>	<b>0.0720</b>			<b>133.6106</b>	<b>0.0368</b>	<b>0.0000</b>	<b>134.383</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	2.8100e-003	0.0522			0.6315	1.2900e-003	0.6328	0.0637	1.1800e-003	0.0649			11.0239	7.0000e-005	0.0000	11.0253
Worker	4.4000e-003	5.3300e-003			0.4592	8.0000e-005	0.4593	0.0470	7.0000e-005	0.0471			8.3283	4.5000e-004	0.0000	8.3378
<b>Total</b>	<b>7.2100e-003</b>	<b>0.0575</b>			<b>1.0907</b>	<b>1.3700e-003</b>	<b>1.0921</b>	<b>0.1107</b>	<b>1.2500e-003</b>	<b>0.1120</b>			<b>19.3522</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>19.3631</b>

**3.28 LST Removal - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.9500e-003	0.0000	7.9500e-003	8.6000e-004	0.0000	8.6000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0851	0.9366				0.0433	0.0433		0.0406	0.0406			81.6813	0.0225	0.0000	82.1548
<b>Total</b>	<b>0.0851</b>	<b>0.9366</b>			<b>7.9500e-003</b>	<b>0.0433</b>	<b>0.0513</b>	<b>8.6000e-004</b>	<b>0.0406</b>	<b>0.0414</b>			<b>81.6813</b>	<b>0.0225</b>	<b>0.0000</b>	<b>82.1548</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.5300e-003	0.0279			1.4086	7.0000e-004	1.4093	0.1411	6.5000e-004	0.1417			6.7393	4.0000e-005	0.0000	6.7401
Worker	2.4600e-003	2.9500e-003			1.0175	4.0000e-005	1.0175	0.1024	4.0000e-005	0.1024			4.9568	2.6000e-004	0.0000	4.9622
<b>Total</b>	<b>3.9900e-003</b>	<b>0.0308</b>			<b>2.4260</b>	<b>7.4000e-004</b>	<b>2.4268</b>	<b>0.2435</b>	<b>6.9000e-004</b>	<b>0.2441</b>			<b>11.6961</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>11.7022</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0400e-003	0.0000	3.0400e-003	3.3000e-004	0.0000	3.3000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0851	0.9366				0.0433	0.0433		0.0406	0.0406			81.6812	0.0225	0.0000	82.1547
<b>Total</b>	<b>0.0851</b>	<b>0.9366</b>			<b>3.0400e-003</b>	<b>0.0433</b>	<b>0.0464</b>	<b>3.3000e-004</b>	<b>0.0406</b>	<b>0.0409</b>			<b>81.6812</b>	<b>0.0225</b>	<b>0.0000</b>	<b>82.1547</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					



Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.5300e-003	0.0279			0.3897	7.0000e-004	0.3904	0.0393	6.5000e-004	0.0400			6.7393	4.0000e-005	0.0000	6.7401
Worker	2.4600e-003	2.9500e-003			0.2834	4.0000e-005	0.2834	0.0290	4.0000e-005	0.0290			4.9568	2.6000e-004	0.0000	4.9622
<b>Total</b>	<b>3.9900e-003</b>	<b>0.0308</b>			<b>0.6730</b>	<b>7.4000e-004</b>	<b>0.6738</b>	<b>0.0683</b>	<b>6.9000e-004</b>	<b>0.0690</b>			<b>11.6961</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>11.7022</b>

### 3.29 LST Foundation Removal - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0701	0.7508				0.0348	0.0348		0.0329	0.0329			77.2920	0.0211	0.0000	77.7359
<b>Total</b>	<b>0.0701</b>	<b>0.7508</b>			<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0329</b>	<b>0.0329</b>			<b>77.2920</b>	<b>0.0211</b>	<b>0.0000</b>	<b>77.7359</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.3700e-003	1.6600e-003			0.5146	2.0000e-005	0.5146	0.0518	2.0000e-005	0.0518			2.5989	1.4000e-004	0.0000	2.6019
<b>Total</b>	<b>1.3700e-003</b>	<b>1.6600e-003</b>			<b>0.5146</b>	<b>2.0000e-005</b>	<b>0.5146</b>	<b>0.0518</b>	<b>2.0000e-005</b>	<b>0.0518</b>			<b>2.5989</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.6019</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0701	0.7508				0.0348	0.0348		0.0329	0.0329			77.2919	0.0211	0.0000	77.7358
<b>Total</b>	<b>0.0701</b>	<b>0.7508</b>			<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0329</b>	<b>0.0329</b>			<b>77.2919</b>	<b>0.0211</b>	<b>0.0000</b>	<b>77.7358</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.3700e-003	1.6600e-003			0.1433	2.0000e-005	0.1433	0.0147	2.0000e-005	0.0147			2.5989	1.4000e-004	0.0000	2.6019
<b>Total</b>	<b>1.3700e-003</b>	<b>1.6600e-003</b>			<b>0.1433</b>	<b>2.0000e-005</b>	<b>0.1433</b>	<b>0.0147</b>	<b>2.0000e-005</b>	<b>0.0147</b>			<b>2.5989</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.6019</b>

**3.30 Seg4 Remove Existing Conductor & GW - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr								MT/yr							
Off-Road	0.0201	0.2379				9.5700e-003	9.5700e-003		8.8000e-003	8.8000e-003			22.3278	6.6700e-003	0.0000	22.4678
<b>Total</b>	<b>0.0201</b>	<b>0.2379</b>				<b>9.5700e-003</b>	<b>9.5700e-003</b>		<b>8.8000e-003</b>	<b>8.8000e-003</b>			<b>22.3278</b>	<b>6.6700e-003</b>	<b>0.0000</b>	<b>22.4678</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	3.8000e-004			0.1170	1.0000e-005	0.1170	0.0118	0.0000	0.0118			0.5907	3.0000e-005	0.0000	0.5913
<b>Total</b>	<b>3.1000e-004</b>	<b>3.8000e-004</b>			<b>0.1170</b>	<b>1.0000e-005</b>	<b>0.1170</b>	<b>0.0118</b>	<b>0.0000</b>	<b>0.0118</b>			<b>0.5907</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5913</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.0201	0.2379					9.5700e-003	9.5700e-003		8.8000e-003	8.8000e-003			22.3277	6.6700e-003	0.0000	22.4677
<b>Total</b>	<b>0.0201</b>	<b>0.2379</b>					<b>9.5700e-003</b>	<b>9.5700e-003</b>		<b>8.8000e-003</b>	<b>8.8000e-003</b>			<b>22.3277</b>	<b>6.6700e-003</b>	<b>0.0000</b>	<b>22.4677</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	3.8000e-004			0.0326	1.0000e-005	0.0326	3.3300e-003	0.0000	3.3400e-003			0.5907	3.0000e-005	0.0000	0.5913
<b>Total</b>	<b>3.1000e-004</b>	<b>3.8000e-004</b>			<b>0.0326</b>	<b>1.0000e-005</b>	<b>0.0326</b>	<b>3.3300e-003</b>	<b>0.0000</b>	<b>3.3400e-003</b>			<b>0.5907</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5913</b>

**3.31 Site 132 Brushing, Roads & Landing Work - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	9.2000e-004	9.0000e-003				4.0000e-004	4.0000e-004		3.7000e-004	3.7000e-004			0.9196	2.7000e-004	0.0000	0.9253
<b>Total</b>	<b>9.2000e-004</b>	<b>9.0000e-003</b>			<b>2.7000e-004</b>	<b>4.0000e-004</b>	<b>6.7000e-004</b>	<b>3.0000e-005</b>	<b>3.7000e-004</b>	<b>4.0000e-004</b>			<b>0.9196</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.9253</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr						
	Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.7000e-004			0.0121	1.0000e-005	0.0122	1.2200e-003	1.0000e-005	1.2200e-003			0.0583	0.0000	0.0000	0.0583
Worker	2.0000e-005	2.0000e-005			7.3100e-003	0.0000	7.3100e-003	7.4000e-004	0.0000	7.4000e-004			0.0369	0.0000	0.0000	0.0370
<b>Total</b>	<b>3.0000e-005</b>	<b>2.9000e-004</b>			<b>0.0195</b>	<b>1.0000e-005</b>	<b>0.0195</b>	<b>1.9600e-003</b>	<b>1.0000e-005</b>	<b>1.9600e-003</b>			<b>0.0952</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0952</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-004	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	9.2000e-004	9.0000e-003				4.0000e-004	4.0000e-004		3.7000e-004	3.7000e-004			0.9196	2.7000e-004	0.0000	0.9253
<b>Total</b>	<b>9.2000e-004</b>	<b>9.0000e-003</b>			<b>1.0000e-004</b>	<b>4.0000e-004</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>3.8000e-004</b>			<b>0.9196</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.9253</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.7000e-004			3.3600e-003	1.0000e-005	3.3700e-003	3.4000e-004	1.0000e-005	3.5000e-004			0.0583	0.0000	0.0000	0.0583
Worker	2.0000e-005	2.0000e-005			2.0400e-003	0.0000	2.0400e-003	2.1000e-004	0.0000	2.1000e-004			0.0369	0.0000	0.0000	0.0370

Total	3.0000e-005	2.9000e-004			5.4000e-003	1.0000e-005	5.4100e-003	5.5000e-004	1.0000e-005	5.6000e-004			0.0952	0.0000	0.0000	0.0952
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### 3.32 Site 128 Brushing, Roads & Landing Work - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	6.8600e-003	0.0726				3.3100e-003	3.3100e-003		3.0400e-003	3.0400e-003			7.1320	2.1300e-003	0.0000	7.1767
<b>Total</b>	<b>6.8600e-003</b>	<b>0.0726</b>			<b>0.0000</b>	<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>3.0400e-003</b>	<b>3.0400e-003</b>			<b>7.1320</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>7.1767</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	8.2000e-004			0.0364	2.0000e-005	0.0365	3.6500e-003	2.0000e-005	3.6700e-003			0.1748	0.0000	0.0000	0.1748
Worker	6.0000e-005	7.0000e-005			0.0219	0.0000	0.0219	2.2100e-003	0.0000	2.2100e-003			0.1108	1.0000e-005	0.0000	0.1109
<b>Total</b>	<b>1.0000e-004</b>	<b>8.9000e-004</b>			<b>0.0584</b>	<b>2.0000e-005</b>	<b>0.0584</b>	<b>5.8600e-003</b>	<b>2.0000e-005</b>	<b>5.8800e-003</b>			<b>0.2855</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2857</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	6.8600e-003	0.0726				3.3100e-003	3.3100e-003		3.0400e-003	3.0400e-003			7.1320	2.1300e-003	0.0000	7.1767
<b>Total</b>	<b>6.8600e-003</b>	<b>0.0726</b>			<b>0.0000</b>	<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>3.0400e-003</b>	<b>3.0400e-003</b>			<b>7.1320</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>7.1767</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	8.2000e-004			0.0101	2.0000e-005	0.0101	1.0200e-003	2.0000e-005	1.0400e-003			0.1748	0.0000	0.0000	0.1748
Worker	6.0000e-005	7.0000e-005			6.1100e-003	0.0000	6.1100e-003	6.2000e-004	0.0000	6.3000e-004			0.1108	1.0000e-005	0.0000	0.1109
<b>Total</b>	<b>1.0000e-004</b>	<b>8.9000e-004</b>			<b>0.0162</b>	<b>2.0000e-005</b>	<b>0.0162</b>	<b>1.6400e-003</b>	<b>2.0000e-005</b>	<b>1.6700e-003</b>			<b>0.2855</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2857</b>

### 3.33 Site 99 Install J-Tower Foundations - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	4.1800e-003	0.0505				1.9100e-003	1.9100e-003		1.7600e-003	1.7600e-003			4.9828	1.4900e-003	0.0000	5.0141

<b>Total</b>	<b>4.1800e-003</b>	<b>0.0505</b>			<b>0.0000</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>			<b>4.9828</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>5.0141</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.0900e-003			0.0486	3.0000e-005	0.0486	4.8600e-003	3.0000e-005	4.8900e-003			0.2330	0.0000	0.0000	0.2331
Worker	6.0000e-005	8.0000e-005			0.0234	0.0000	0.0234	2.3500e-003	0.0000	2.3500e-003			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.1000e-004</b>	<b>1.1700e-003</b>			<b>0.0720</b>	<b>3.0000e-005</b>	<b>0.0720</b>	<b>7.2100e-003</b>	<b>3.0000e-005</b>	<b>7.2400e-003</b>			<b>0.3512</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3513</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	4.1800e-003	0.0505				1.9100e-003	1.9100e-003		1.7600e-003	1.7600e-003			4.9828	1.4900e-003	0.0000	5.0141
<b>Total</b>	<b>4.1800e-003</b>	<b>0.0505</b>			<b>0.0000</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>			<b>4.9828</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>5.0141</b>

**Mitigated Construction Off-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.0900e-003			0.0134	3.0000e-005	0.0135	1.3600e-003	3.0000e-005	1.3800e-003			0.2330	0.0000	0.0000	0.2331
Worker	6.0000e-005	8.0000e-005			6.5100e-003	0.0000	6.5100e-003	6.7000e-004	0.0000	6.7000e-004			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.1000e-004</b>	<b>1.1700e-003</b>			<b>0.0200</b>	<b>3.0000e-005</b>	<b>0.0200</b>	<b>2.0300e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>			<b>0.3512</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3513</b>

### 3.34 Site 97 Install J-Tower Footings - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0368				1.6000e-003	1.6000e-003		1.4900e-003	1.4900e-003			3.7125	1.0800e-003	0.0000	3.7351
<b>Total</b>	<b>3.3200e-003</b>	<b>0.0368</b>			<b>5.3000e-004</b>	<b>1.6000e-003</b>	<b>2.1300e-003</b>	<b>6.0000e-005</b>	<b>1.4900e-003</b>	<b>1.5500e-003</b>			<b>3.7125</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.7351</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.0900e-003			0.0486	3.0000e-005	0.0486	4.8600e-003	3.0000e-005	4.8900e-003			0.2330	0.0000	0.0000	0.2331
Worker	6.0000e-005	8.0000e-005			0.0234	0.0000	0.0234	2.3500e-003	0.0000	2.3500e-003			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.1000e-004</b>	<b>1.1700e-003</b>			<b>0.0720</b>	<b>3.0000e-005</b>	<b>0.0720</b>	<b>7.2100e-003</b>	<b>3.0000e-005</b>	<b>7.2400e-003</b>			<b>0.3512</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3513</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-004	0.0000	2.0000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0368				1.6000e-003	1.6000e-003		1.4900e-003	1.4900e-003			3.7125	1.0800e-003	0.0000	3.7351
<b>Total</b>	<b>3.3200e-003</b>	<b>0.0368</b>			<b>2.0000e-004</b>	<b>1.6000e-003</b>	<b>1.8000e-003</b>	<b>2.0000e-005</b>	<b>1.4900e-003</b>	<b>1.5100e-003</b>			<b>3.7125</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.7351</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.0900e-003			0.0134	3.0000e-005	0.0135	1.3600e-003	3.0000e-005	1.3800e-003			0.2330	0.0000	0.0000	0.2331
Worker	6.0000e-005	8.0000e-005			6.5100e-003	0.0000	6.5100e-003	6.7000e-004	0.0000	6.7000e-004			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.1000e-004</b>	<b>1.1700e-003</b>			<b>0.0200</b>	<b>3.0000e-005</b>	<b>0.0200</b>	<b>2.0300e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>			<b>0.3512</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3513</b>

### 3.35 Site 132 LST Removal - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	2.1600e-003	0.0231				1.0100e-003	1.0100e-003		9.5000e-004	9.5000e-004			2.3789	6.7000e-004	0.0000	2.3929
<b>Total</b>	<b>2.1600e-003</b>	<b>0.0231</b>			<b>5.3000e-004</b>	<b>1.0100e-003</b>	<b>1.5400e-003</b>	<b>6.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0100e-003</b>			<b>2.3789</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.3929</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	7.4000e-004			0.0324	2.0000e-005	0.0324	3.2400e-003	2.0000e-005	3.2600e-003			0.1564	0.0000	0.0000	0.1564
Worker	6.0000e-005	8.0000e-005			0.0234	0.0000	0.0234	2.3500e-003	0.0000	2.3500e-003			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.0000e-004</b>	<b>8.2000e-004</b>			<b>0.0558</b>	<b>2.0000e-005</b>	<b>0.0558</b>	<b>5.5900e-003</b>	<b>2.0000e-005</b>	<b>5.6100e-003</b>			<b>0.2745</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2747</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr						
	Fugitive Dust					2.0000e-004	0.0000	2.0000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000	0.0000	0.0000
Off-Road	2.1600e-003	0.0231				1.0100e-003	1.0100e-003		9.5000e-004	9.5000e-004			2.3789	6.7000e-004	0.0000	2.3929
<b>Total</b>	<b>2.1600e-003</b>	<b>0.0231</b>			<b>2.0000e-004</b>	<b>1.0100e-003</b>	<b>1.2100e-003</b>	<b>2.0000e-005</b>	<b>9.5000e-004</b>	<b>9.7000e-004</b>			<b>2.3789</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.3929</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	7.4000e-004			8.9600e-003	2.0000e-005	8.9800e-003	9.0000e-004	2.0000e-005	9.2000e-004			0.1564	0.0000	0.0000	0.1564
Worker	6.0000e-005	8.0000e-005			6.5100e-003	0.0000	6.5100e-003	6.7000e-004	0.0000	6.7000e-004			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.0000e-004</b>	<b>8.2000e-004</b>			<b>0.0155</b>	<b>2.0000e-005</b>	<b>0.0155</b>	<b>1.5700e-003</b>	<b>2.0000e-005</b>	<b>1.5900e-003</b>			<b>0.2745</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2747</b>

**3.36 Site 99 J-Tower Assembly & Erection - 2015**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	1.6200e-003	0.0179				7.6000e-004	7.6000e-004		7.1000e-004	7.1000e-004			1.8082	5.2000e-004	0.0000	1.8191
<b>Total</b>	<b>1.6200e-003</b>	<b>0.0179</b>			<b>2.7000e-004</b>	<b>7.6000e-004</b>	<b>1.0300e-003</b>	<b>3.0000e-005</b>	<b>7.1000e-004</b>	<b>7.4000e-004</b>			<b>1.8082</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.8191</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	5.4000e-004			0.0243	1.0000e-005	0.0243	2.4300e-003	1.0000e-005	2.4400e-003			0.1165	0.0000	0.0000	0.1165
Worker	5.0000e-005	6.0000e-005			0.0175	0.0000	0.0175	1.7700e-003	0.0000	1.7700e-003			0.0886	0.0000	0.0000	0.0887
<b>Total</b>	<b>8.0000e-005</b>	<b>6.0000e-004</b>			<b>0.0418</b>	<b>1.0000e-005</b>	<b>0.0418</b>	<b>4.2000e-003</b>	<b>1.0000e-005</b>	<b>4.2100e-003</b>			<b>0.2051</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2052</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-004	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	1.6200e-003	0.0179				7.6000e-004	7.6000e-004		7.1000e-004	7.1000e-004			1.8082	5.2000e-004	0.0000	1.8191
<b>Total</b>	<b>1.6200e-003</b>	<b>0.0179</b>			<b>1.0000e-004</b>	<b>7.6000e-004</b>	<b>8.6000e-004</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>7.2000e-004</b>			<b>1.8082</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.8191</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr						
	Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000
Vendor	3.0000e-005	5.4000e-004			6.7200e-003	1.0000e-005	6.7300e-003	6.8000e-004	1.0000e-005	6.9000e-004			0.1165	0.0000	0.0000	0.1165
Worker	5.0000e-005	6.0000e-005			4.8900e-003	0.0000	4.8900e-003	5.0000e-004	0.0000	5.0000e-004			0.0886	0.0000	0.0000	0.0887
<b>Total</b>	<b>8.0000e-005</b>	<b>6.0000e-004</b>			<b>0.0116</b>	<b>1.0000e-005</b>	<b>0.0116</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>			<b>0.2051</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2052</b>

**3.37 Site 97 J-Tower Assembly & Erection - 2015**  
**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	4.8700e-003	0.0536				2.2900e-003	2.2900e-003		2.1400e-003	2.1400e-003			5.4246	1.5500e-003	0.0000	5.4572
<b>Total</b>	<b>4.8700e-003</b>	<b>0.0536</b>			<b>8.0000e-004</b>	<b>2.2900e-003</b>	<b>3.0900e-003</b>	<b>9.0000e-005</b>	<b>2.1400e-003</b>	<b>2.2300e-003</b>			<b>5.4246</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>5.4572</b>

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0729	4.0000e-005	0.0729	7.3000e-003	4.0000e-005	7.3300e-003			0.3495	0.0000	0.0000	0.3496
Worker	1.4000e-004	1.7000e-004			0.0526	0.0000	0.0526	5.3000e-003	0.0000	5.3000e-003			0.2658	1.0000e-005	0.0000	0.2661

Total	2.2000e-004	1.8000e-003			0.1255	4.0000e-005	0.1255	0.0126	4.0000e-005	0.0126			0.6153	1.0000e-005	0.0000	0.6157
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	4.8700e-003	0.0536				2.2900e-003	2.2900e-003		2.1400e-003	2.1400e-003			5.4246	1.5500e-003	0.0000	5.4572
<b>Total</b>	<b>4.8700e-003</b>	<b>0.0536</b>			<b>3.0000e-004</b>	<b>2.2900e-003</b>	<b>2.5900e-003</b>	<b>3.0000e-005</b>	<b>2.1400e-003</b>	<b>2.1700e-003</b>			<b>5.4246</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>5.4572</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0202	4.0000e-005	0.0202	2.0300e-003	4.0000e-005	2.0700e-003			0.3495	0.0000	0.0000	0.3496
Worker	1.4000e-004	1.7000e-004			0.0147	0.0000	0.0147	1.5000e-003	0.0000	1.5000e-003			0.2658	1.0000e-005	0.0000	0.2661
<b>Total</b>	<b>2.2000e-004</b>	<b>1.8000e-003</b>			<b>0.0348</b>	<b>4.0000e-005</b>	<b>0.0349</b>	<b>3.5300e-003</b>	<b>4.0000e-005</b>	<b>3.5700e-003</b>			<b>0.6153</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6157</b>

**3.38 Site 132 Install J-Tower Footings - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	9.5400e-003	0.1145				4.3000e-003	4.3000e-003		3.9500e-003	3.9500e-003			11.4989	3.4300e-003	0.0000	11.5710
<b>Total</b>	<b>9.5400e-003</b>	<b>0.1145</b>			<b>8.0000e-004</b>	<b>4.3000e-003</b>	<b>5.1000e-003</b>	<b>9.0000e-005</b>	<b>3.9500e-003</b>	<b>4.0400e-003</b>			<b>11.4989</b>	<b>3.4300e-003</b>	<b>0.0000</b>	<b>11.571</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0729	4.0000e-005	0.0729	7.3000e-003	4.0000e-005	7.3300e-003			0.3495	0.0000	0.0000	0.3496
Worker	7.0000e-005	9.0000e-005			0.0263	0.0000	0.0263	2.6500e-003	0.0000	2.6500e-003			0.1329	1.0000e-005	0.0000	0.1331
<b>Total</b>	<b>1.5000e-004</b>	<b>1.7200e-003</b>			<b>0.0992</b>	<b>4.0000e-005</b>	<b>0.0992</b>	<b>9.9500e-003</b>	<b>4.0000e-005</b>	<b>9.9800e-003</b>			<b>0.4824</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4826</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	9.5400e-003	0.1145				4.3000e-003	4.3000e-003		3.9500e-003	3.9500e-003			11.4989	3.4300e-003	0.0000	11.5710



Total	9.5400e-003	0.1145			3.0000e-004	4.3000e-003	4.6000e-003	3.0000e-005	3.9500e-003	3.9800e-003			11.4989	3.4300e-003	0.0000	11.571
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0202	4.0000e-005	0.0202	2.0300e-003	4.0000e-005	2.0700e-003			0.3495	0.0000	0.0000	0.3496
Worker	7.0000e-005	9.0000e-005			7.3300e-003	0.0000	7.3300e-003	7.5000e-004	0.0000	7.5000e-004			0.1329	1.0000e-005	0.0000	0.1331
<b>Total</b>	<b>1.5000e-004</b>	<b>1.7200e-003</b>			<b>0.0275</b>	<b>4.0000e-005</b>	<b>0.0275</b>	<b>2.7800e-003</b>	<b>4.0000e-005</b>	<b>2.8200e-003</b>			<b>0.4824</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4826</b>

**3.39 Site 128 LST Removal - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	2.1600e-003	0.0231				1.0100e-003	1.0100e-003		9.5000e-004	9.5000e-004			2.3789	6.7000e-004	0.0000	2.3929
<b>Total</b>	<b>2.1600e-003</b>	<b>0.0231</b>			<b>5.3000e-004</b>	<b>1.0100e-003</b>	<b>1.5400e-003</b>	<b>6.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0100e-003</b>			<b>2.3789</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.3929</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	7.4000e-004			0.0324	2.0000e-005	0.0324	3.2400e-003	2.0000e-005	3.2600e-003			0.1564	0.0000	0.0000	0.1564
Worker	6.0000e-005	8.0000e-005			0.0234	0.0000	0.0234	2.3500e-003	0.0000	2.3500e-003			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.0000e-004</b>	<b>8.2000e-004</b>			<b>0.0558</b>	<b>2.0000e-005</b>	<b>0.0558</b>	<b>5.5900e-003</b>	<b>2.0000e-005</b>	<b>5.6100e-003</b>			<b>0.2745</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2747</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-004	0.0000	2.0000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	2.1600e-003	0.0231				1.0100e-003	1.0100e-003		9.5000e-004	9.5000e-004			2.3789	6.7000e-004	0.0000	2.3929
<b>Total</b>	<b>2.1600e-003</b>	<b>0.0231</b>			<b>2.0000e-004</b>	<b>1.0100e-003</b>	<b>1.2100e-003</b>	<b>2.0000e-005</b>	<b>9.5000e-004</b>	<b>9.7000e-004</b>			<b>2.3789</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.3929</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	7.4000e-004			8.9600e-003	2.0000e-005	8.9800e-003	9.0000e-004	2.0000e-005	9.2000e-004			0.1564	0.0000	0.0000	0.1564
Worker	6.0000e-005	8.0000e-005			6.5100e-003	0.0000	6.5100e-003	6.7000e-004	0.0000	6.7000e-004			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.0000e-004</b>	<b>8.2000e-004</b>			<b>0.0155</b>	<b>2.0000e-005</b>	<b>0.0155</b>	<b>1.5700e-003</b>	<b>2.0000e-005</b>	<b>1.5900e-003</b>			<b>0.2745</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2747</b>

### 3.40 Wood Pole Removal - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.1000e-004	0.0000	1.1000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0100	0.1160				4.7700e-003	4.7700e-003		4.4100e-003	4.4100e-003			10.9887	3.2300e-003	0.0000	11.0564
<b>Total</b>	<b>0.0100</b>	<b>0.1160</b>			<b>1.0600e-003</b>	<b>4.7700e-003</b>	<b>5.8300e-003</b>	<b>1.1000e-004</b>	<b>4.4100e-003</b>	<b>4.5200e-003</b>			<b>10.9887</b>	<b>3.2300e-003</b>	<b>0.0000</b>	<b>11.0564</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.4800e-003			0.0648	4.0000e-005	0.0648	6.4900e-003	3.0000e-005	6.5200e-003			0.3127	0.0000	0.0000	0.3128
Worker	9.0000e-005	1.1000e-004			0.0351	0.0000	0.0351	3.5300e-003	0.0000	3.5300e-003			0.1772	1.0000e-005	0.0000	0.1774
<b>Total</b>	<b>1.7000e-004</b>	<b>1.5900e-003</b>			<b>0.0999</b>	<b>4.0000e-005</b>	<b>0.0999</b>	<b>0.0100</b>	<b>3.0000e-005</b>	<b>0.0101</b>			<b>0.4899</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4902</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0100	0.1160				4.7700e-003	4.7700e-003		4.4100e-003	4.4100e-003			10.9887	3.2300e-003	0.0000	11.0564
<b>Total</b>	<b>0.0100</b>	<b>0.1160</b>			<b>4.1000e-004</b>	<b>4.7700e-003</b>	<b>5.1800e-003</b>	<b>4.0000e-005</b>	<b>4.4100e-003</b>	<b>4.4500e-003</b>			<b>10.9887</b>	<b>3.2300e-003</b>	<b>0.0000</b>	<b>11.0564</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.4800e-003			0.0179	4.0000e-005	0.0180	1.8100e-003	3.0000e-005	1.8400e-003			0.3127	0.0000	0.0000	0.3128
Worker	9.0000e-005	1.1000e-004			9.7700e-003	0.0000	9.7700e-003	1.0000e-003	0.0000	1.0000e-003			0.1772	1.0000e-005	0.0000	0.1774
<b>Total</b>	<b>1.7000e-004</b>	<b>1.5900e-003</b>			<b>0.0277</b>	<b>4.0000e-005</b>	<b>0.0277</b>	<b>2.8100e-003</b>	<b>3.0000e-005</b>	<b>2.8400e-003</b>			<b>0.4899</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4902</b>

**3.41 Seg 4 LST Removal - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	8.4000e-003	0.0929				4.3400e-003	4.3400e-003		4.0700e-003	4.0700e-003			7.5808	2.0900e-003	0.0000	7.6246
<b>Total</b>	<b>8.4000e-003</b>	<b>0.0929</b>			<b>0.0000</b>	<b>4.3400e-003</b>	<b>4.3400e-003</b>	<b>0.0000</b>	<b>4.0700e-003</b>	<b>4.0700e-003</b>			<b>7.5808</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>7.6246</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	2.9600e-003			0.1295	7.0000e-005	0.1296	0.0130	7.0000e-005	0.0130			0.6255	0.0000	0.0000	0.6256
Worker	2.5000e-004	3.0000e-004			0.0936	0.0000	0.0936	9.4100e-003	0.0000	9.4200e-003			0.4725	3.0000e-005	0.0000	0.4731
<b>Total</b>	<b>4.1000e-004</b>	<b>3.2600e-003</b>			<b>0.2231</b>	<b>7.0000e-005</b>	<b>0.2232</b>	<b>0.0224</b>	<b>7.0000e-005</b>	<b>0.0225</b>			<b>1.0980</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0986</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	8.4000e-003	0.0929				4.3400e-003	4.3400e-003		4.0700e-003	4.0700e-003			7.5807	2.0900e-003	0.0000	7.6246
<b>Total</b>	<b>8.4000e-003</b>	<b>0.0929</b>			<b>0.0000</b>	<b>4.3400e-003</b>	<b>4.3400e-003</b>	<b>0.0000</b>	<b>4.0700e-003</b>	<b>4.0700e-003</b>			<b>7.5807</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>7.6246</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	2.9600e-003			0.0358	7.0000e-005	0.0359	3.6100e-003	7.0000e-005	3.6800e-003			0.6255	0.0000	0.0000	0.6256
Worker	2.5000e-004	3.0000e-004			0.0261	0.0000	0.0261	2.6700e-003	0.0000	2.6700e-003			0.4725	3.0000e-005	0.0000	0.4731
<b>Total</b>	<b>4.1000e-004</b>	<b>3.2600e-003</b>			<b>0.0619</b>	<b>7.0000e-005</b>	<b>0.0620</b>	<b>6.2800e-003</b>	<b>7.0000e-005</b>	<b>6.3500e-003</b>			<b>1.0980</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0986</b>

**3.42 Site 128 Install J-Tower Footings - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	4.8700e-003	0.0581				2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003			5.8265	1.7400e-003	0.0000	5.8630
<b>Total</b>	<b>4.8700e-003</b>	<b>0.0581</b>			<b>8.0000e-004</b>	<b>2.2300e-003</b>	<b>3.0300e-003</b>	<b>9.0000e-005</b>	<b>2.0500e-003</b>	<b>2.1400e-003</b>			<b>5.8265</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>5.863</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr						
	Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0729	4.0000e-005	0.0729	7.3000e-003	4.0000e-005	7.3300e-003			0.3495	0.0000	0.0000	0.3496
Worker	7.0000e-005	9.0000e-005			0.0263	0.0000	0.0263	2.6500e-003	0.0000	2.6500e-003			0.1329	1.0000e-005	0.0000	0.1331
<b>Total</b>	<b>1.5000e-004</b>	<b>1.7200e-003</b>			<b>0.0992</b>	<b>4.0000e-005</b>	<b>0.0992</b>	<b>9.9500e-003</b>	<b>4.0000e-005</b>	<b>9.9800e-003</b>			<b>0.4824</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4826</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	4.8700e-003	0.0581				2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003			5.8265	1.7400e-003	0.0000	5.8630
<b>Total</b>	<b>4.8700e-003</b>	<b>0.0581</b>			<b>3.0000e-004</b>	<b>2.2300e-003</b>	<b>2.5300e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>	<b>2.0800e-003</b>			<b>5.8265</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>5.863</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0202	4.0000e-005	0.0202	2.0300e-003	4.0000e-005	2.0700e-003			0.3495	0.0000	0.0000	0.3496
Worker	7.0000e-005	9.0000e-005			7.3300e-003	0.0000	7.3300e-003	7.5000e-004	0.0000	7.5000e-004			0.1329	1.0000e-005	0.0000	0.1331

Total	1.5000e-004	1.7200e-003			0.0275	4.0000e-005	0.0275	2.7800e-003	4.0000e-005	2.8200e-003			0.4824	1.0000e-005	0.0000	0.4826
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### 3.43 Site 132 J-Tower Assembly & Erection - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	5.8800e-003	0.0655				2.7500e-003	2.7500e-003		2.5600e-003	2.5600e-003			6.6595	1.9200e-003	0.0000	6.6999
<b>Total</b>	<b>5.8800e-003</b>	<b>0.0655</b>			<b>8.0000e-004</b>	<b>2.7500e-003</b>	<b>3.5500e-003</b>	<b>9.0000e-005</b>	<b>2.5600e-003</b>	<b>2.6500e-003</b>			<b>6.6595</b>	<b>1.9200e-003</b>	<b>0.0000</b>	<b>6.6999</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0729	4.0000e-005	0.0729	7.3000e-003	4.0000e-005	7.3300e-003			0.3495	0.0000	0.0000	0.3496
Worker	1.4000e-004	1.7000e-004			0.0526	0.0000	0.0526	5.3000e-003	0.0000	5.3000e-003			0.2658	1.0000e-005	0.0000	0.2661
<b>Total</b>	<b>2.2000e-004</b>	<b>1.8000e-003</b>			<b>0.1255</b>	<b>4.0000e-005</b>	<b>0.1255</b>	<b>0.0126</b>	<b>4.0000e-005</b>	<b>0.0126</b>			<b>0.6153</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6157</b>

#### Mitigated Construction On-Site



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	5.8800e-003	0.0655				2.7500e-003	2.7500e-003		2.5600e-003	2.5600e-003			6.6595	1.9200e-003	0.0000	6.6999
<b>Total</b>	<b>5.8800e-003</b>	<b>0.0655</b>			<b>3.0000e-004</b>	<b>2.7500e-003</b>	<b>3.0500e-003</b>	<b>3.0000e-005</b>	<b>2.5600e-003</b>	<b>2.5900e-003</b>			<b>6.6595</b>	<b>1.9200e-003</b>	<b>0.0000</b>	<b>6.6999</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0202	4.0000e-005	0.0202	2.0300e-003	4.0000e-005	2.0700e-003			0.3495	0.0000	0.0000	0.3496
Worker	1.4000e-004	1.7000e-004			0.0147	0.0000	0.0147	1.5000e-003	0.0000	1.5000e-003			0.2658	1.0000e-005	0.0000	0.2661
<b>Total</b>	<b>2.2000e-004</b>	<b>1.8000e-003</b>			<b>0.0348</b>	<b>4.0000e-005</b>	<b>0.0349</b>	<b>3.5300e-003</b>	<b>4.0000e-005</b>	<b>3.5700e-003</b>			<b>0.6153</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6157</b>

### **3.44 Site 128 J-Tower Assembly & Erection - 2015**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-003	0.0750				3.6100e-003	3.6100e-003		3.3500e-003	3.3500e-003			6.7644	1.9500e-003	0.0000	6.8054

<b>Total</b>	<b>7.0000e-003</b>	<b>0.0750</b>			<b>8.0000e-004</b>	<b>3.6100e-003</b>	<b>4.4100e-003</b>	<b>9.0000e-005</b>	<b>3.3500e-003</b>	<b>3.4400e-003</b>			<b>6.7644</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>6.8054</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0729	4.0000e-005	0.0729	7.3000e-003	4.0000e-005	7.3300e-003			0.3495	0.0000	0.0000	0.3496
Worker	1.4000e-004	1.7000e-004			0.0526	0.0000	0.0526	5.3000e-003	0.0000	5.3000e-003			0.2658	1.0000e-005	0.0000	0.2661
<b>Total</b>	<b>2.2000e-004</b>	<b>1.8000e-003</b>			<b>0.1255</b>	<b>4.0000e-005</b>	<b>0.1255</b>	<b>0.0126</b>	<b>4.0000e-005</b>	<b>0.0126</b>			<b>0.6153</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6157</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-003	0.0750				3.6100e-003	3.6100e-003		3.3500e-003	3.3500e-003			6.7644	1.9500e-003	0.0000	6.8054
<b>Total</b>	<b>7.0000e-003</b>	<b>0.0750</b>			<b>3.0000e-004</b>	<b>3.6100e-003</b>	<b>3.9100e-003</b>	<b>3.0000e-005</b>	<b>3.3500e-003</b>	<b>3.3800e-003</b>			<b>6.7644</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>6.8054</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	1.6300e-003			0.0202	4.0000e-005	0.0202	2.0300e-003	4.0000e-005	2.0700e-003			0.3495	0.0000	0.0000	0.3496
Worker	1.4000e-004	1.7000e-004			0.0147	0.0000	0.0147	1.5000e-003	0.0000	1.5000e-003			0.2658	1.0000e-005	0.0000	0.2661
<b>Total</b>	<b>2.2000e-004</b>	<b>1.8000e-003</b>			<b>0.0348</b>	<b>4.0000e-005</b>	<b>0.0349</b>	<b>3.5300e-003</b>	<b>4.0000e-005</b>	<b>3.5700e-003</b>			<b>0.6153</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6157</b>

### 3.45 Seg 4 LST Foundation Removal - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.1900e-003	0.0341				1.5800e-003	1.5800e-003		1.4900e-003	1.4900e-003			3.5133	9.6000e-004	0.0000	3.5335
<b>Total</b>	<b>3.1900e-003</b>	<b>0.0341</b>			<b>0.0000</b>	<b>1.5800e-003</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>1.4900e-003</b>	<b>1.4900e-003</b>			<b>3.5133</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>3.5335</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	7.4000e-004			0.0324	2.0000e-005	0.0324	3.2400e-003	2.0000e-005	3.2600e-003			0.1564	0.0000	0.0000	0.1564
Worker	6.0000e-005	8.0000e-005			0.0234	0.0000	0.0234	2.3500e-003	0.0000	2.3500e-003			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.0000e-004</b>	<b>8.2000e-004</b>			<b>0.0558</b>	<b>2.0000e-005</b>	<b>0.0558</b>	<b>5.5900e-003</b>	<b>2.0000e-005</b>	<b>5.6100e-003</b>			<b>0.2745</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2747</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.1900e-003	0.0341				1.5800e-003	1.5800e-003		1.4900e-003	1.4900e-003			3.5133	9.6000e-004	0.0000	3.5334
<b>Total</b>	<b>3.1900e-003</b>	<b>0.0341</b>			<b>0.0000</b>	<b>1.5800e-003</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>1.4900e-003</b>	<b>1.4900e-003</b>			<b>3.5133</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>3.5334</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	7.4000e-004			8.9600e-003	2.0000e-005	8.9800e-003	9.0000e-004	2.0000e-005	9.2000e-004			0.1564	0.0000	0.0000	0.1564
Worker	6.0000e-005	8.0000e-005			6.5100e-003	0.0000	6.5100e-003	6.7000e-004	0.0000	6.7000e-004			0.1181	1.0000e-005	0.0000	0.1183
<b>Total</b>	<b>1.0000e-004</b>	<b>8.2000e-004</b>			<b>0.0155</b>	<b>2.0000e-005</b>	<b>0.0155</b>	<b>1.5700e-003</b>	<b>2.0000e-005</b>	<b>1.5900e-003</b>			<b>0.2745</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2747</b>

### 3.46 Santa Clara Maintenance - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0150	0.1660				7.1800e-003	7.1800e-003		6.6100e-003	6.6100e-003			14.5883	4.3600e-003	0.0000	14.6798
<b>Total</b>	<b>0.0150</b>	<b>0.1660</b>			<b>0.0000</b>	<b>7.1800e-003</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>6.6100e-003</b>	<b>6.6100e-003</b>			<b>14.5883</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>14.6798</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	6.6000e-004			0.2047	1.0000e-005	0.2047	0.0206	1.0000e-005	0.0206			1.0337	6.0000e-005	0.0000	1.0348
<b>Total</b>	<b>5.5000e-004</b>	<b>6.6000e-004</b>			<b>0.2047</b>	<b>1.0000e-005</b>	<b>0.2047</b>	<b>0.0206</b>	<b>1.0000e-005</b>	<b>0.0206</b>			<b>1.0337</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.0348</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000
Off-Road	0.0150	0.1660				7.1800e-003	7.1800e-003		6.6100e-003	6.6100e-003			14.5883	4.3600e-003	0.0000	14.6798
<b>Total</b>	<b>0.0150</b>	<b>0.1660</b>			<b>0.0000</b>	<b>7.1800e-003</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>6.6100e-003</b>	<b>6.6100e-003</b>			<b>14.5883</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>14.6798</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	6.6000e-004			0.0570	1.0000e-005	0.0570	5.8300e-003	1.0000e-005	5.8400e-003			1.0337	6.0000e-005	0.0000	1.0348
<b>Total</b>	<b>5.5000e-004</b>	<b>6.6000e-004</b>			<b>0.0570</b>	<b>1.0000e-005</b>	<b>0.0570</b>	<b>5.8300e-003</b>	<b>1.0000e-005</b>	<b>5.8400e-003</b>			<b>1.0337</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.0348</b>

**3.47 Casitas Maintenance - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0133	0.0000	0.0133	1.4300e-003	0.0000	1.4300e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3193				0.0194	0.0194		0.0179	0.0179			19.6171	5.8600e-003	0.0000	19.7400
<b>Total</b>	<b>0.0317</b>	<b>0.3193</b>			<b>0.0133</b>	<b>0.0194</b>	<b>0.0327</b>	<b>1.4300e-003</b>	<b>0.0179</b>	<b>0.0193</b>			<b>19.6171</b>	<b>5.8600e-003</b>	<b>0.0000</b>	<b>19.74</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	1.1800e-003			0.3655	2.0000e-005	0.3655	0.0368	2.0000e-005	0.0368			1.8458	1.0000e-004	0.0000	1.8479
<b>Total</b>	<b>9.8000e-004</b>	<b>1.1800e-003</b>			<b>0.3655</b>	<b>2.0000e-005</b>	<b>0.3655</b>	<b>0.0368</b>	<b>2.0000e-005</b>	<b>0.0368</b>			<b>1.8458</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.8479</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0700e-003	0.0000	5.0700e-003	5.5000e-004	0.0000	5.5000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3193				0.0194	0.0194		0.0179	0.0179			19.6170	5.8600e-003	0.0000	19.7400
<b>Total</b>	<b>0.0317</b>	<b>0.3193</b>			<b>5.0700e-003</b>	<b>0.0194</b>	<b>0.0245</b>	<b>5.5000e-004</b>	<b>0.0179</b>	<b>0.0184</b>			<b>19.6170</b>	<b>5.8600e-003</b>	<b>0.0000</b>	<b>19.74</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	1.1800e-003			0.1018	2.0000e-005	0.1018	0.0104	2.0000e-005	0.0104			1.8458	1.0000e-004	0.0000	1.8479
<b>Total</b>	<b>9.8000e-004</b>	<b>1.1800e-003</b>			<b>0.1018</b>	<b>2.0000e-005</b>	<b>0.1018</b>	<b>0.0104</b>	<b>2.0000e-005</b>	<b>0.0104</b>			<b>1.8458</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.8479</b>

### 3.48 Carpinteria Maintenance - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1874				8.1000e-003	8.1000e-003		7.4500e-003	7.4500e-003			16.4640	4.9200e-003	0.0000	16.5672
<b>Total</b>	<b>0.0169</b>	<b>0.1874</b>			<b>0.0000</b>	<b>8.1000e-003</b>	<b>8.1000e-003</b>	<b>0.0000</b>	<b>7.4500e-003</b>	<b>7.4500e-003</b>			<b>16.4640</b>	<b>4.9200e-003</b>	<b>0.0000</b>	<b>16.5672</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	7.5000e-004			0.2310	1.0000e-005	0.2310	0.0232	1.0000e-005	0.0233			1.1666	6.0000e-005	0.0000	1.1679



<b>Total</b>	<b>6.2000e-004</b>	<b>7.5000e-004</b>			<b>0.2310</b>	<b>1.0000e-005</b>	<b>0.2310</b>	<b>0.0232</b>	<b>1.0000e-005</b>	<b>0.0233</b>			<b>1.1666</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1679</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1874				8.1000e-003	8.1000e-003		7.4500e-003	7.4500e-003			16.4640	4.9200e-003	0.0000	16.5672
<b>Total</b>	<b>0.0169</b>	<b>0.1874</b>			<b>0.0000</b>	<b>8.1000e-003</b>	<b>8.1000e-003</b>	<b>0.0000</b>	<b>7.4500e-003</b>	<b>7.4500e-003</b>			<b>16.4640</b>	<b>4.9200e-003</b>	<b>0.0000</b>	<b>16.5672</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	7.5000e-004			0.0643	1.0000e-005	0.0643	6.5800e-003	1.0000e-005	6.5900e-003			1.1666	6.0000e-005	0.0000	1.1679
<b>Total</b>	<b>6.2000e-004</b>	<b>7.5000e-004</b>			<b>0.0643</b>	<b>1.0000e-005</b>	<b>0.0643</b>	<b>6.5800e-003</b>	<b>1.0000e-005</b>	<b>6.5900e-003</b>			<b>1.1666</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1679</b>

**3.48 Carpinteria Maintenance - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	2.1800e-003				9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.2062	6.0000e-005	0.0000	0.2075
<b>Total</b>	<b>2.0000e-004</b>	<b>2.1800e-003</b>			<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>			<b>0.2062</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.2075</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005			2.9200e-003	0.0000	2.9200e-003	2.9000e-004	0.0000	2.9000e-004			0.0142	0.0000	0.0000	0.0143
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>2.9200e-003</b>	<b>0.0000</b>	<b>2.9200e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>			<b>0.0142</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0143</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	2.1800e-003				9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.2062	6.0000e-005	0.0000	0.2075

Total	2.0000e-004	2.1800e-003			0.0000	9.0000e-005	9.0000e-005	0.0000	9.0000e-005	9.0000e-005			0.2062	6.0000e-005	0.0000	0.2075
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005			8.1000e-004	0.0000	8.1000e-004	8.0000e-005	0.0000	8.0000e-005			0.0142	0.0000	0.0000	0.0143
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>8.1000e-004</b>	<b>0.0000</b>	<b>8.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>			<b>0.0142</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0143</b>

**3.49 Casitas Test - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.5700e-003	0.0395				1.7100e-003	1.7100e-003		1.5700e-003	1.5700e-003			3.4734	1.0400e-003	0.0000	3.4952
<b>Total</b>	<b>3.5700e-003</b>	<b>0.0395</b>			<b>0.0000</b>	<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>1.5700e-003</b>	<b>1.5700e-003</b>			<b>3.4734</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.4952</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.4000e-004			0.0731	0.0000	0.0731	7.3600e-003	0.0000	7.3600e-003			0.3692	2.0000e-005	0.0000	0.3696
<b>Total</b>	<b>2.0000e-004</b>	<b>2.4000e-004</b>			<b>0.0731</b>	<b>0.0000</b>	<b>0.0731</b>	<b>7.3600e-003</b>	<b>0.0000</b>	<b>7.3600e-003</b>			<b>0.3692</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3696</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.5700e-003	0.0395				1.7100e-003	1.7100e-003		1.5700e-003	1.5700e-003			3.4734	1.0400e-003	0.0000	3.4952
<b>Total</b>	<b>3.5700e-003</b>	<b>0.0395</b>			<b>0.0000</b>	<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>1.5700e-003</b>	<b>1.5700e-003</b>			<b>3.4734</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.4952</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.4000e-004			0.0204	0.0000	0.0204	2.0800e-003	0.0000	2.0900e-003			0.3692	2.0000e-005	0.0000	0.3696
<b>Total</b>	<b>2.0000e-004</b>	<b>2.4000e-004</b>			<b>0.0204</b>	<b>0.0000</b>	<b>0.0204</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>2.0900e-003</b>			<b>0.3692</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3696</b>

### 3.50 Santa Clara Test - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.8500e-003	0.0427				1.8500e-003	1.8500e-003		1.7000e-003	1.7000e-003			3.7513	1.1200e-003	0.0000	3.7748
<b>Total</b>	<b>3.8500e-003</b>	<b>0.0427</b>			<b>0.0000</b>	<b>1.8500e-003</b>	<b>1.8500e-003</b>	<b>0.0000</b>	<b>1.7000e-003</b>	<b>1.7000e-003</b>			<b>3.7513</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.7748</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	2.6000e-004			0.0789	0.0000	0.0790	7.9400e-003	0.0000	7.9500e-003			0.3987	2.0000e-005	0.0000	0.3992
<b>Total</b>	<b>2.1000e-004</b>	<b>2.6000e-004</b>			<b>0.0789</b>	<b>0.0000</b>	<b>0.0790</b>	<b>7.9400e-003</b>	<b>0.0000</b>	<b>7.9500e-003</b>			<b>0.3987</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3992</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.8500e-003	0.0427				1.8500e-003	1.8500e-003		1.7000e-003	1.7000e-003			3.7513	1.1200e-003	0.0000	3.7748
<b>Total</b>	<b>3.8500e-003</b>	<b>0.0427</b>			<b>0.0000</b>	<b>1.8500e-003</b>	<b>1.8500e-003</b>	<b>0.0000</b>	<b>1.7000e-003</b>	<b>1.7000e-003</b>			<b>3.7513</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.7748</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	2.6000e-004			0.0220	0.0000	0.0220	2.2500e-003	0.0000	2.2500e-003			0.3987	2.0000e-005	0.0000	0.3992
<b>Total</b>	<b>2.1000e-004</b>	<b>2.6000e-004</b>			<b>0.0220</b>	<b>0.0000</b>	<b>0.0220</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>2.2500e-003</b>			<b>0.3987</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3992</b>

**3.50 Santa Clara Test - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.0800e-003	0.0116				5.0000e-004	5.0000e-004		4.6000e-004	4.6000e-004			1.0998	3.3000e-004	0.0000	1.1068
<b>Total</b>	<b>1.0800e-003</b>	<b>0.0116</b>			<b>0.0000</b>	<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>4.6000e-004</b>			<b>1.0998</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.1068</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	7.0000e-005			0.0234	0.0000	0.0234	2.3500e-003	0.0000	2.3500e-003			0.1140	1.0000e-005	0.0000	0.1141
<b>Total</b>	<b>6.0000e-005</b>	<b>7.0000e-005</b>			<b>0.0234</b>	<b>0.0000</b>	<b>0.0234</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>2.3500e-003</b>			<b>0.1140</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1141</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.0800e-003	0.0116				5.0000e-004	5.0000e-004		4.6000e-004	4.6000e-004			1.0998	3.3000e-004	0.0000	1.1068
<b>Total</b>	<b>1.0800e-003</b>	<b>0.0116</b>			<b>0.0000</b>	<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>4.6000e-004</b>			<b>1.0998</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.1068</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	7.0000e-005			6.5100e-003	0.0000	6.5100e-003	6.7000e-004	0.0000	6.7000e-004			0.1140	1.0000e-005	0.0000	0.1141
<b>Total</b>	<b>6.0000e-005</b>	<b>7.0000e-005</b>			<b>6.5100e-003</b>	<b>0.0000</b>	<b>6.5100e-003</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>			<b>0.1140</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1141</b>

**3.51 Carpinteria Test - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	6.7200e-003	0.0728				3.1300e-003	3.1300e-003		2.8800e-003	2.8800e-003			6.8738	2.0700e-003	0.0000	6.9174
<b>Total</b>	<b>6.7200e-003</b>	<b>0.0728</b>			<b>0.0000</b>	<b>3.1300e-003</b>	<b>3.1300e-003</b>	<b>0.0000</b>	<b>2.8800e-003</b>	<b>2.8800e-003</b>			<b>6.8738</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.9174</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	4.2000e-004			0.1462	1.0000e-005	0.1462	0.0147	1.0000e-005	0.0147			0.7122	4.0000e-005	0.0000	0.7130
<b>Total</b>	<b>3.5000e-004</b>	<b>4.2000e-004</b>			<b>0.1462</b>	<b>1.0000e-005</b>	<b>0.1462</b>	<b>0.0147</b>	<b>1.0000e-005</b>	<b>0.0147</b>			<b>0.7122</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.713</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	6.7200e-003	0.0728				3.1300e-003	3.1300e-003		2.8800e-003	2.8800e-003			6.8738	2.0700e-003	0.0000	6.9174
<b>Total</b>	<b>6.7200e-003</b>	<b>0.0728</b>			<b>0.0000</b>	<b>3.1300e-003</b>	<b>3.1300e-003</b>	<b>0.0000</b>	<b>2.8800e-003</b>	<b>2.8800e-003</b>			<b>6.8738</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.9174</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	4.2000e-004			0.0407	1.0000e-005	0.0407	4.1700e-003	1.0000e-005	4.1700e-003			0.7122	4.0000e-005	0.0000	0.7130

Total	3.5000e-004	4.2000e-004			0.0407	1.0000e-005	0.0407	4.1700e-003	1.0000e-005	4.1700e-003			0.7122	4.0000e-005	0.0000	0.713
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### 3.52 Golita Electrical - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.6800e-003	0.0182				7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004			1.7185	5.2000e-004	0.0000	1.7293
<b>Total</b>	<b>1.6800e-003</b>	<b>0.0182</b>			<b>0.0000</b>	<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>7.2000e-004</b>			<b>1.7185</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.7293</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.1000e-004			0.0731	0.0000	0.0731	7.3600e-003	0.0000	7.3600e-003			0.3561	2.0000e-005	0.0000	0.3565
<b>Total</b>	<b>1.8000e-004</b>	<b>2.1000e-004</b>			<b>0.0731</b>	<b>0.0000</b>	<b>0.0731</b>	<b>7.3600e-003</b>	<b>0.0000</b>	<b>7.3600e-003</b>			<b>0.3561</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3565</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.6800e-003	0.0182				7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004			1.7185	5.2000e-004	0.0000	1.7293
<b>Total</b>	<b>1.6800e-003</b>	<b>0.0182</b>			<b>0.0000</b>	<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>7.2000e-004</b>			<b>1.7185</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.7293</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.1000e-004			0.0204	0.0000	0.0204	2.0800e-003	0.0000	2.0900e-003			0.3561	2.0000e-005	0.0000	0.3565
<b>Total</b>	<b>1.8000e-004</b>	<b>2.1000e-004</b>			<b>0.0204</b>	<b>0.0000</b>	<b>0.0204</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>2.0900e-003</b>			<b>0.3561</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3565</b>

### 3.53 Santa Barbara Electrical - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.6800e-003	0.0182				7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004			1.7185	5.2000e-004	0.0000	1.7293

<b>Total</b>	<b>1.6800e-003</b>	<b>0.0182</b>			<b>0.0000</b>	<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>7.2000e-004</b>			<b>1.7185</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.7293</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.1000e-004			0.0731	0.0000	0.0731	7.3600e-003	0.0000	7.3600e-003			0.3561	2.0000e-005	0.0000	0.3565
<b>Total</b>	<b>1.8000e-004</b>	<b>2.1000e-004</b>			<b>0.0731</b>	<b>0.0000</b>	<b>0.0731</b>	<b>7.3600e-003</b>	<b>0.0000</b>	<b>7.3600e-003</b>			<b>0.3561</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3565</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.6800e-003	0.0182				7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004			1.7185	5.2000e-004	0.0000	1.7293
<b>Total</b>	<b>1.6800e-003</b>	<b>0.0182</b>			<b>0.0000</b>	<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>7.2000e-004</b>			<b>1.7185</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.7293</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.1000e-004			0.0204	0.0000	0.0204	2.0800e-003	0.0000	2.0900e-003			0.3561	2.0000e-005	0.0000	0.3565
<b>Total</b>	<b>1.8000e-004</b>	<b>2.1000e-004</b>			<b>0.0204</b>	<b>0.0000</b>	<b>0.0204</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>2.0900e-003</b>			<b>0.3561</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3565</b>

### 3.54 Golita Test - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.6800e-003	0.0182				7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004			1.7185	5.2000e-004	0.0000	1.7293
<b>Total</b>	<b>1.6800e-003</b>	<b>0.0182</b>			<b>0.0000</b>	<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>7.2000e-004</b>			<b>1.7185</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.7293</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.1000e-004			0.0731	0.0000	0.0731	7.3600e-003	0.0000	7.3600e-003			0.3561	2.0000e-005	0.0000	0.3565
<b>Total</b>	<b>1.8000e-004</b>	<b>2.1000e-004</b>			<b>0.0731</b>	<b>0.0000</b>	<b>0.0731</b>	<b>7.3600e-003</b>	<b>0.0000</b>	<b>7.3600e-003</b>			<b>0.3561</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3565</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.6800e-003	0.0182				7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004			1.7185	5.2000e-004	0.0000	1.7293
<b>Total</b>	<b>1.6800e-003</b>	<b>0.0182</b>			<b>0.0000</b>	<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>7.2000e-004</b>			<b>1.7185</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.7293</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.1000e-004			0.0204	0.0000	0.0204	2.0800e-003	0.0000	2.0900e-003			0.3561	2.0000e-005	0.0000	0.3565
<b>Total</b>	<b>1.8000e-004</b>	<b>2.1000e-004</b>			<b>0.0204</b>	<b>0.0000</b>	<b>0.0204</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>2.0900e-003</b>			<b>0.3561</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3565</b>

### 3.55 Santa Barbara Test - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.6800e-003	0.0182				7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004			1.7185	5.2000e-004	0.0000	1.7293
<b>Total</b>	<b>1.6800e-003</b>	<b>0.0182</b>			<b>0.0000</b>	<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>7.2000e-004</b>			<b>1.7185</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.7293</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.1000e-004			0.0731	0.0000	0.0731	7.3600e-003	0.0000	7.3600e-003			0.3561	2.0000e-005	0.0000	0.3565
<b>Total</b>	<b>1.8000e-004</b>	<b>2.1000e-004</b>			<b>0.0731</b>	<b>0.0000</b>	<b>0.0731</b>	<b>7.3600e-003</b>	<b>0.0000</b>	<b>7.3600e-003</b>			<b>0.3561</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3565</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr						
	Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000
Off-Road	1.6800e-003	0.0182				7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004			1.7185	5.2000e-004	0.0000	1.7293
<b>Total</b>	<b>1.6800e-003</b>	<b>0.0182</b>			<b>0.0000</b>	<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>7.2000e-004</b>			<b>1.7185</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.7293</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.1000e-004			0.0204	0.0000	0.0204	2.0800e-003	0.0000	2.0900e-003			0.3561	2.0000e-005	0.0000	0.3565
<b>Total</b>	<b>1.8000e-004</b>	<b>2.1000e-004</b>			<b>0.0204</b>	<b>0.0000</b>	<b>0.0204</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>2.0900e-003</b>			<b>0.3561</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3565</b>

**3.56 Ortega Electrical - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	7.2800e-003				3.1000e-004	3.1000e-004		2.9000e-004	2.9000e-004			0.6874	2.1000e-004	0.0000	0.6917
<b>Total</b>	<b>6.7000e-004</b>	<b>7.2800e-003</b>			<b>0.0000</b>	<b>3.1000e-004</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>			<b>0.6874</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6917</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	8.0000e-005			0.0292	0.0000	0.0292	2.9400e-003	0.0000	2.9400e-003			0.1424	1.0000e-005	0.0000	0.1426
<b>Total</b>	<b>7.0000e-005</b>	<b>8.0000e-005</b>			<b>0.0292</b>	<b>0.0000</b>	<b>0.0292</b>	<b>2.9400e-003</b>	<b>0.0000</b>	<b>2.9400e-003</b>			<b>0.1424</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1426</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	7.2800e-003				3.1000e-004	3.1000e-004		2.9000e-004	2.9000e-004			0.6874	2.1000e-004	0.0000	0.6917
<b>Total</b>	<b>6.7000e-004</b>	<b>7.2800e-003</b>			<b>0.0000</b>	<b>3.1000e-004</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>			<b>0.6874</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6917</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	8.0000e-005			8.1400e-003	0.0000	8.1400e-003	8.3000e-004	0.0000	8.3000e-004			0.1424	1.0000e-005	0.0000	0.1426
<b>Total</b>	<b>7.0000e-005</b>	<b>8.0000e-005</b>			<b>8.1400e-003</b>	<b>0.0000</b>	<b>8.1400e-003</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>8.3000e-004</b>			<b>0.1424</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1426</b>

### 3.57 Ortega Test - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	7.2800e-003				3.1000e-004	3.1000e-004		2.9000e-004	2.9000e-004			0.6874	2.1000e-004	0.0000	0.6917
<b>Total</b>	<b>6.7000e-004</b>	<b>7.2800e-003</b>			<b>0.0000</b>	<b>3.1000e-004</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>			<b>0.6874</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6917</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	8.0000e-005			0.0292	0.0000	0.0292	2.9400e-003	0.0000	2.9400e-003			0.1424	1.0000e-005	0.0000	0.1426

Total	7.0000e-005	8.0000e-005			0.0292	0.0000	0.0292	2.9400e-003	0.0000	2.9400e-003			0.1424	1.0000e-005	0.0000	0.1426
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	7.2800e-003				3.1000e-004	3.1000e-004		2.9000e-004	2.9000e-004			0.6874	2.1000e-004	0.0000	0.6917
<b>Total</b>	<b>6.7000e-004</b>	<b>7.2800e-003</b>			<b>0.0000</b>	<b>3.1000e-004</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>2.9000e-004</b>			<b>0.6874</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6917</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	8.0000e-005			8.1400e-003	0.0000	8.1400e-003	8.3000e-004	0.0000	8.3000e-004			0.1424	1.0000e-005	0.0000	0.1426
<b>Total</b>	<b>7.0000e-005</b>	<b>8.0000e-005</b>			<b>8.1400e-003</b>	<b>0.0000</b>	<b>8.1400e-003</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>8.3000e-004</b>			<b>0.1424</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1426</b>

**3.58 LWS Pole Haul - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.1000e-004	0.0000	1.1000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	3.0700e-003	0.0369				1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003			3.7128	1.1200e-003	0.0000	3.7363
<b>Total</b>	<b>3.0700e-003</b>	<b>0.0369</b>			<b>1.0600e-003</b>	<b>1.4400e-003</b>	<b>2.5000e-003</b>	<b>1.1000e-004</b>	<b>1.3300e-003</b>	<b>1.4400e-003</b>			<b>3.7128</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.7363</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.2400e-003			0.0648	3.0000e-005	0.0648	6.4900e-003	3.0000e-005	6.5200e-003			0.3068	0.0000	0.0000	0.3069
Worker	6.0000e-005	7.0000e-005			0.0234	0.0000	0.0234	2.3500e-003	0.0000	2.3500e-003			0.1140	1.0000e-005	0.0000	0.1141
<b>Total</b>	<b>1.2000e-004</b>	<b>1.3100e-003</b>			<b>0.0882</b>	<b>3.0000e-005</b>	<b>0.0882</b>	<b>8.8400e-003</b>	<b>3.0000e-005</b>	<b>8.8700e-003</b>			<b>0.4208</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4209</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	3.0700e-003	0.0369				1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003			3.7128	1.1200e-003	0.0000	3.7363

Total	3.0700e-003	0.0369			4.1000e-004	1.4400e-003	1.8500e-003	4.0000e-005	1.3300e-003	1.3700e-003			3.7128	1.1200e-003	0.0000	3.7363
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.2400e-003			0.0179	3.0000e-005	0.0180	1.8100e-003	3.0000e-005	1.8400e-003			0.3068	0.0000	0.0000	0.3069
Worker	6.0000e-005	7.0000e-005			6.5100e-003	0.0000	6.5100e-003	6.7000e-004	0.0000	6.7000e-004			0.1140	1.0000e-005	0.0000	0.1141
<b>Total</b>	<b>1.2000e-004</b>	<b>1.3100e-003</b>			<b>0.0244</b>	<b>3.0000e-005</b>	<b>0.0245</b>	<b>2.4800e-003</b>	<b>3.0000e-005</b>	<b>2.5100e-003</b>			<b>0.4208</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4209</b>

**3.59 LWS Pole Assembly - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.1000e-004	0.0000	1.1000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	5.6100e-003	0.0613				3.1300e-003	3.1300e-003		2.8900e-003	2.8900e-003			4.7914	1.4000e-003	0.0000	4.8207
<b>Total</b>	<b>5.6100e-003</b>	<b>0.0613</b>			<b>1.0600e-003</b>	<b>3.1300e-003</b>	<b>4.1900e-003</b>	<b>1.1000e-004</b>	<b>2.8900e-003</b>	<b>3.0000e-003</b>			<b>4.7914</b>	<b>1.4000e-003</b>	<b>0.0000</b>	<b>4.8207</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	2.5600e-003			0.1295	6.0000e-005	0.1296	0.0130	6.0000e-005	0.0130			0.6197	0.0000	0.0000	0.6198
Worker	1.1000e-004	1.4000e-004			0.0468	0.0000	0.0468	4.7100e-003	0.0000	4.7100e-003			0.2279	1.0000e-005	0.0000	0.2281
<b>Total</b>	<b>2.5000e-004</b>	<b>2.7000e-003</b>			<b>0.1763</b>	<b>6.0000e-005</b>	<b>0.1764</b>	<b>0.0177</b>	<b>6.0000e-005</b>	<b>0.0177</b>			<b>0.8476</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.8479</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	5.6100e-003	0.0613				3.1300e-003	3.1300e-003		2.8900e-003	2.8900e-003			4.7914	1.4000e-003	0.0000	4.8207
<b>Total</b>	<b>5.6100e-003</b>	<b>0.0613</b>			<b>4.1000e-004</b>	<b>3.1300e-003</b>	<b>3.5400e-003</b>	<b>4.0000e-005</b>	<b>2.8900e-003</b>	<b>2.9300e-003</b>			<b>4.7914</b>	<b>1.4000e-003</b>	<b>0.0000</b>	<b>4.8207</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	2.5600e-003			0.0358	6.0000e-005	0.0359	3.6100e-003	6.0000e-005	3.6700e-003			0.6197	0.0000	0.0000	0.6198
Worker	1.1000e-004	1.4000e-004			0.0130	0.0000	0.0130	1.3300e-003	0.0000	1.3300e-003			0.2279	1.0000e-005	0.0000	0.2281
<b>Total</b>	<b>2.5000e-004</b>	<b>2.7000e-003</b>			<b>0.0489</b>	<b>6.0000e-005</b>	<b>0.0489</b>	<b>4.9400e-003</b>	<b>6.0000e-005</b>	<b>5.0000e-003</b>			<b>0.8476</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.8479</b>

### 3.60 Instal LWS Pole - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0436				1.7500e-003	1.7500e-003		1.6100e-003	1.6100e-003			4.5043	1.3600e-003	0.0000	4.5328
<b>Total</b>	<b>3.6800e-003</b>	<b>0.0436</b>			<b>8.0000e-004</b>	<b>1.7500e-003</b>	<b>2.5500e-003</b>	<b>9.0000e-005</b>	<b>1.6100e-003</b>	<b>1.7000e-003</b>			<b>4.5043</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>4.5328</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	9.3000e-004			0.0486	2.0000e-005	0.0486	4.8600e-003	2.0000e-005	4.8900e-003			0.2301	0.0000	0.0000	0.2302
Worker	6.0000e-005	8.0000e-005			0.0263	0.0000	0.0263	2.6500e-003	0.0000	2.6500e-003			0.1282	1.0000e-005	0.0000	0.1283
<b>Total</b>	<b>1.1000e-004</b>	<b>1.0100e-003</b>			<b>0.0749</b>	<b>2.0000e-005</b>	<b>0.0749</b>	<b>7.5100e-003</b>	<b>2.0000e-005</b>	<b>7.5400e-003</b>			<b>0.3583</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3585</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0436				1.7500e-003	1.7500e-003		1.6100e-003	1.6100e-003			4.5043	1.3600e-003	0.0000	4.5328
<b>Total</b>	<b>3.6800e-003</b>	<b>0.0436</b>			<b>3.0000e-004</b>	<b>1.7500e-003</b>	<b>2.0500e-003</b>	<b>3.0000e-005</b>	<b>1.6100e-003</b>	<b>1.6400e-003</b>			<b>4.5043</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>4.5328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	9.3000e-004			0.0134	2.0000e-005	0.0135	1.3600e-003	2.0000e-005	1.3800e-003			0.2301	0.0000	0.0000	0.2302
Worker	6.0000e-005	8.0000e-005			7.3300e-003	0.0000	7.3300e-003	7.5000e-004	0.0000	7.5000e-004			0.1282	1.0000e-005	0.0000	0.1283
<b>Total</b>	<b>1.1000e-004</b>	<b>1.0100e-003</b>			<b>0.0208</b>	<b>2.0000e-005</b>	<b>0.0208</b>	<b>2.1100e-003</b>	<b>2.0000e-005</b>	<b>2.1300e-003</b>			<b>0.3583</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3585</b>

**3.61 Install PRGW&FRC - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Fugitive Dust					5.8300e-003	0.0000	5.8300e-003	6.3000e-004	0.0000	6.3000e-004			0.0000	0.0000	0.0000
Off-Road	0.1279	1.4824				0.0582	0.0582		0.0535	0.0535			158.3678	0.0478	0.0000	159.3709
<b>Total</b>	<b>0.1279</b>	<b>1.4824</b>			<b>5.8300e-003</b>	<b>0.0582</b>	<b>0.0640</b>	<b>6.3000e-004</b>	<b>0.0535</b>	<b>0.0542</b>			<b>158.3678</b>	<b>0.0478</b>	<b>0.0000</b>	<b>159.3709</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.8700e-003			0.6432	3.0000e-005	0.6433	0.0647	3.0000e-005	0.0648			3.1336	1.6000e-004	0.0000	3.1370
<b>Total</b>	<b>1.5500e-003</b>	<b>1.8700e-003</b>			<b>0.6432</b>	<b>3.0000e-005</b>	<b>0.6433</b>	<b>0.0647</b>	<b>3.0000e-005</b>	<b>0.0648</b>			<b>3.1336</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>3.137</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2300e-003	0.0000	2.2300e-003	2.4000e-004	0.0000	2.4000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1279	1.4824				0.0582	0.0582		0.0535	0.0535			158.3676	0.0478	0.0000	159.3707
<b>Total</b>	<b>0.1279</b>	<b>1.4824</b>			<b>2.2300e-003</b>	<b>0.0582</b>	<b>0.0604</b>	<b>2.4000e-004</b>	<b>0.0535</b>	<b>0.0538</b>			<b>158.3676</b>	<b>0.0478</b>	<b>0.0000</b>	<b>159.3707</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.8700e-003			0.1791	3.0000e-005	0.1792	0.0183	3.0000e-005	0.0184			3.1336	1.6000e-004	0.0000	3.1370
<b>Total</b>	<b>1.5500e-003</b>	<b>1.8700e-003</b>			<b>0.1791</b>	<b>3.0000e-005</b>	<b>0.1792</b>	<b>0.0183</b>	<b>3.0000e-005</b>	<b>0.0184</b>			<b>3.1336</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>3.137</b>

**3.62 Guard Structure Removal - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.7600e-003	0.0000	5.7600e-003	8.7000e-004	0.0000	8.7000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	8.4000e-003	0.0948				3.9900e-003	3.9900e-003		3.7000e-003	3.7000e-003			9.4769	2.7600e-003	0.0000	9.5349
<b>Total</b>	<b>8.4000e-003</b>	<b>0.0948</b>			<b>5.7600e-003</b>	<b>3.9900e-003</b>	<b>9.7500e-003</b>	<b>8.7000e-004</b>	<b>3.7000e-003</b>	<b>4.5700e-003</b>			<b>9.4769</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>9.5349</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr						
	Hauling	4.5000e-004	8.0400e-003			0.0799	1.2000e-004	0.0800	8.0500e-003	1.1000e-004	8.1600e-003			1.7283	1.0000e-005	0.0000
Vendor	1.4000e-004	2.5600e-003			0.1295	6.0000e-005	0.1296	0.0130	6.0000e-005	0.0130			0.6197	0.0000	0.0000	0.6198
Worker	1.7000e-004	2.0000e-004			0.0702	0.0000	0.0702	7.0600e-003	0.0000	7.0600e-003			0.3419	2.0000e-005	0.0000	0.3422
<b>Total</b>	<b>7.6000e-004</b>	<b>0.0108</b>			<b>0.2796</b>	<b>1.8000e-004</b>	<b>0.2798</b>	<b>0.0281</b>	<b>1.7000e-004</b>	<b>0.0283</b>			<b>2.6899</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.6905</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2000e-003	0.0000	2.2000e-003	3.3000e-004	0.0000	3.3000e-004			0.0000	0.0000	0.0000	0.0000
Off-Road	8.4000e-003	0.0948				3.9900e-003	3.9900e-003		3.7000e-003	3.7000e-003			9.4768	2.7600e-003	0.0000	9.5348
<b>Total</b>	<b>8.4000e-003</b>	<b>0.0948</b>			<b>2.2000e-003</b>	<b>3.9900e-003</b>	<b>6.1900e-003</b>	<b>3.3000e-004</b>	<b>3.7000e-003</b>	<b>4.0300e-003</b>			<b>9.4768</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>9.5348</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5000e-004	8.0400e-003			0.0223	1.2000e-004	0.0224	2.2900e-003	1.1000e-004	2.4000e-003			1.7283	1.0000e-005	0.0000	1.7285
Vendor	1.4000e-004	2.5600e-003			0.0358	6.0000e-005	0.0359	3.6100e-003	6.0000e-005	3.6700e-003			0.6197	0.0000	0.0000	0.6198
Worker	1.7000e-004	2.0000e-004			0.0195	0.0000	0.0195	2.0000e-003	0.0000	2.0000e-003			0.3419	2.0000e-005	0.0000	0.3422

Total	7.6000e-004	0.0108			0.0777	1.8000e-004	0.0779	7.9000e-003	1.7000e-004	8.0700e-003			2.6899	3.0000e-005	0.0000	2.6905
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### 3.63 Duct Bank Installation - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0692				2.7400e-003	2.7400e-003		2.5400e-003	2.5400e-003			7.8513	2.3300e-003	0.0000	7.9003
<b>Total</b>	<b>6.1400e-003</b>	<b>0.0692</b>			<b>8.0000e-004</b>	<b>2.7400e-003</b>	<b>3.5400e-003</b>	<b>9.0000e-005</b>	<b>2.5400e-003</b>	<b>2.6300e-003</b>			<b>7.8513</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>7.9003</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005			0.0263	0.0000	0.0263	2.6500e-003	0.0000	2.6500e-003			0.1282	1.0000e-005	0.0000	0.1283
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>			<b>0.0263</b>	<b>0.0000</b>	<b>0.0263</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>2.6500e-003</b>			<b>0.1282</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1283</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0692				2.7400e-003	2.7400e-003		2.5400e-003	2.5400e-003			7.8513	2.3300e-003	0.0000	7.9003
<b>Total</b>	<b>6.1400e-003</b>	<b>0.0692</b>			<b>3.0000e-004</b>	<b>2.7400e-003</b>	<b>3.0400e-003</b>	<b>3.0000e-005</b>	<b>2.5400e-003</b>	<b>2.5700e-003</b>			<b>7.8513</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>7.9003</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005			7.3300e-003	0.0000	7.3300e-003	7.5000e-004	0.0000	7.5000e-004			0.1282	1.0000e-005	0.0000	0.1283
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>			<b>7.3300e-003</b>	<b>0.0000</b>	<b>7.3300e-003</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>7.5000e-004</b>			<b>0.1282</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1283</b>

### **3.64 UG Cable Installation - 2016**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	2.3700e-003	0.0270				1.1800e-003	1.1800e-003		1.0900e-003	1.0900e-003			2.5883	7.8000e-004	0.0000	2.6047

<b>Total</b>	<b>2.3700e-003</b>	<b>0.0270</b>			<b>2.7000e-004</b>	<b>1.1800e-003</b>	<b>1.4500e-003</b>	<b>3.0000e-005</b>	<b>1.0900e-003</b>	<b>1.1200e-003</b>			<b>2.5883</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.6047</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005			0.0117	0.0000	0.0117	1.1800e-003	0.0000	1.1800e-003			0.0570	0.0000	0.0000	0.0570
<b>Total</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>			<b>0.0117</b>	<b>0.0000</b>	<b>0.0117</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.1800e-003</b>			<b>0.0570</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.057</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-004	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	2.3700e-003	0.0270				1.1800e-003	1.1800e-003		1.0900e-003	1.0900e-003			2.5883	7.8000e-004	0.0000	2.6047
<b>Total</b>	<b>2.3700e-003</b>	<b>0.0270</b>			<b>1.0000e-004</b>	<b>1.1800e-003</b>	<b>1.2800e-003</b>	<b>1.0000e-005</b>	<b>1.0900e-003</b>	<b>1.1000e-003</b>			<b>2.5883</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.6047</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005			3.2600e-003	0.0000	3.2600e-003	3.3000e-004	0.0000	3.3000e-004			0.0570	0.0000	0.0000	0.0570
<b>Total</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>			<b>3.2600e-003</b>	<b>0.0000</b>	<b>3.2600e-003</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>			<b>0.0570</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.057</b>

### 3.65 Restoration - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.3000e-004	0.0000	6.3000e-004	7.0000e-005	0.0000	7.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.2145				7.9400e-003	7.9400e-003		7.3000e-003	7.3000e-003			22.1111	6.6700e-003	0.0000	22.2511
<b>Total</b>	<b>0.0175</b>	<b>0.2145</b>			<b>6.3000e-004</b>	<b>7.9400e-003</b>	<b>8.5700e-003</b>	<b>7.0000e-005</b>	<b>7.3000e-003</b>	<b>7.3700e-003</b>			<b>22.1111</b>	<b>6.6700e-003</b>	<b>0.0000</b>	<b>22.2511</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	5.7700e-003			0.2914	1.5000e-004	0.2916	0.0292	1.3000e-004	0.0293			1.3943	1.0000e-005	0.0000	1.3945
Worker	4.4000e-004	5.3000e-004			0.1842	1.0000e-005	0.1842	0.0185	1.0000e-005	0.0185			0.8974	5.0000e-005	0.0000	0.8983
<b>Total</b>	<b>7.6000e-004</b>	<b>6.3000e-003</b>			<b>0.4756</b>	<b>1.6000e-004</b>	<b>0.4758</b>	<b>0.0477</b>	<b>1.4000e-004</b>	<b>0.0479</b>			<b>2.2917</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.2928</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.2145				7.9400e-003	7.9400e-003		7.3000e-003	7.3000e-003			22.1110	6.6700e-003	0.0000	22.2511
<b>Total</b>	<b>0.0175</b>	<b>0.2145</b>			<b>2.4000e-004</b>	<b>7.9400e-003</b>	<b>8.1800e-003</b>	<b>3.0000e-005</b>	<b>7.3000e-003</b>	<b>7.3300e-003</b>			<b>22.1110</b>	<b>6.6700e-003</b>	<b>0.0000</b>	<b>22.2511</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	5.7700e-003			0.0806	1.5000e-004	0.0808	8.1300e-003	1.3000e-004	8.2700e-003			1.3943	1.0000e-005	0.0000	1.3945
Worker	4.4000e-004	5.3000e-004			0.0513	1.0000e-005	0.0513	5.2500e-003	1.0000e-005	5.2600e-003			0.8974	5.0000e-005	0.0000	0.8983
<b>Total</b>	<b>7.6000e-004</b>	<b>6.3000e-003</b>			<b>0.1319</b>	<b>1.6000e-004</b>	<b>0.1321</b>	<b>0.0134</b>	<b>1.4000e-004</b>	<b>0.0135</b>			<b>2.2917</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.2928</b>



## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.474028	0.063287	0.180321	0.158861	0.070757	0.010543	0.013219	0.016605	0.000784	0.000665	0.005582	0.000318	0.005029

## 5.0 Energy Detail

### 4.4 Fleet Mix

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>				<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>				<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000

Total		0.0000	0.0000	0.0000	0.0000
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## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>				<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>				<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000

Unmitigated	0.0000	0.0000	0.0000	0.0000
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## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Santa Barbara County Reliability Project Ventura County, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.00	User Defined Unit	0.00	0.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2016
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - power lines. no operational vehicle trips

Construction Phase - based on client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - site info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info



Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - (1) 4x4 truck 300 hp; (1) compressor trailer 60 hp; (1) manlift/bucket truck 250 hp; (1) boom/crane truck 350 hp; (1) auger truck 210 hp; (1) extendable flat bed pole truck 400 hp

Off-road Equipment - (4) 4x4 truck; (4) manlift/bucket truck 250 hp; (2) boom/crane truck 350 hp; (1) dump truck 350 hp; (2) water truck 300 hp; (2) auger truck 210 hp; (1) extendable flat bed pole truck 400 hp

Off-road Equipment - site info

Off-road Equipment - site info

Off-road Equipment - site info

Off-road Equipment - site info

Off-road Equipment - (1) manlift/bucket truck 250 hp; (1) boom/crane truck 350 hp; (1) auger truck 210 hp; (1) backhoe/front loader 125 hp; (1) extendable flat bed pole truck 400 hp

Off-road Equipment - (4) 4x4 truck 300 hp; (4) manlift 250 hp; (2) crane truck 350 hp; (1) dump truck 350 hp; (2) water truck 300 hp; (2) wire truck 350 hp; (1) sl puller 300 hp; (1) bw puller 350 hp; (1) static truck 350 hp; (1) loader 125 hp; (2) lowboy truck 450 hp

Off-road Equipment - same as install conductor

Off-road Equipment - (1) boom/crane truck 350 hp; (1) backhoe/front loader 125 hp; (1) auger truck 210 hp; (1) water truck 300 hp; (1) dump truck 350 hp; (3) concrete mixer truck 350 hp

Off-road Equipment - (1) compressor trailer 60 hp; (1) Backhoe/front loader; (1) dump truck 350 hp; (1) excavator 250 hp

Off-road Equipment - (1) compressor trailer 60 hp; (1) R/T crane 215 hp; (1) boom/crane truck 350 hp; (1) flat bed truck/trailer 400 hp

Off-road Equipment - (1) compressor trailer 60 hp; (1) boom/crane truck 350 hp

Off-road Equipment - (1) boom/crane truck 350 hp; (1) flat bed pole truck 400 hp

Off-road Equipment - (1) R/T Forklift 125 hp; (1) Boom/Crane Truck 350 hp; (1) Semi Tractor Truck 400 hp

Off-road Equipment - 1 diesel 4x4 truck; 1 R/T forklift; 1 boom/crane truck; 1 water truck; 1 semi tractor truck

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - (1) Backhoe/Front loader 125 hp; (1) Track type dozer 150 hp; (1) motor grader 250 hp; (1) lowboy truck/trailer 450 hp; (1) 4x4 truck 300 hp; (1) water truck 300 hp

Off-road Equipment - (4) 4x4 trucks; (4) manlift/bucket truck 250 hp; (2) boom/crane truck 350 hp; (1) bull whell puller 350 hp; (1) sock line puller 300 hp; (2) water truck 300 hp; (1) static truck/tensioner 350 hp; (2) lowboy truck/trailer

Off-road Equipment - (1) backhoe/front loader 125 hp; (1) grader 250 hp; (1) drum type compactor 100 hp; (1) lowboy truck/trailer 450 hp

Off-road Equipment - client info

Off-road Equipment - (2) 4x4 truck 300 hp; (1) brusher 110 hp; (1) chipper 50 hp; (1) loader 125 hp; (1) track type dozer 150 hp; (1) motor grader 250 hp; (2) water truck 300 hp; (1) compactor 100 hp; (1) excavator 250 hp; (1) lowboy truck 450 hp

Off-road Equipment - site info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

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Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - client info

Off-road Equipment - No diesel equipment

Off-road Equipment - 1 dump truck; 1 truck; 1 chipper

Off-road Equipment - (2) 4x4 truck; (1) compressor trailer 60 hp; (1) boom/crane truck 350 hp

Off-road Equipment - (1) 4x4 truck; (1) Compressor Trailer 60 hp; (1) boom/crane truck 350 hp

Off-road Equipment - (1) boom/crane truck 350 hp; (1) flat bed pole truck 400 hp

Off-road Equipment - (1) bucket truck 250 hp; (1) crane truck 350 hp; (2) wire truck 350 hp; (1) puller 350 hp; (1) static truck 350 hp

Off-road Equipment - (2) 4x4 truck 300 hp; (1) compressor trailer 60 hp; (1) manlift/bucket truck 250 hp; (1) boom/crane truck 350 hp; (1) flat bed pole truck 400 hp

Off-road Equipment - site info

Trips and VMT - based on client info - vendor truck represents construction 4x4 truck. Assumes truck travels 10 miles per hour.

On-road Fugitive Dust - site info

Demolition -

Grading - site info

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - APMs

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	75	250
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	16
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	FuelType	Diesel	Bio-diesel
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstructionPhase	NumDays	0.00	12.00
tblConstructionPhase	NumDays	0.00	169.00
tblConstructionPhase	NumDays	0.00	88.00
tblConstructionPhase	NumDays	0.00	4.00
tblConstructionPhase	NumDays	0.00	4.00
tblConstructionPhase	NumDays	0.00	9.00
tblConstructionPhase	NumDays	0.00	20.00
tblConstructionPhase	NumDays	0.00	28.00
tblConstructionPhase	NumDays	0.00	14.00
tblConstructionPhase	NumDays	0.00	14.00
tblConstructionPhase	NumDays	0.00	150.00
tblConstructionPhase	NumDays	0.00	120.00
tblConstructionPhase	NumDays	0.00	70.00

tblConstructionPhase	NumDays	0.00	4.00
tblConstructionPhase	NumDays	0.00	45.00
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tblConstructionPhase	NumDays	0.00	85.00
tblConstructionPhase	NumDays	0.00	50.00
tblConstructionPhase	NumDays	0.00	228.00
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tblConstructionPhase	NumDays	0.00	3.00
tblConstructionPhase	NumDays	0.00	2.00
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tblConstructionPhase	NumDays	0.00	2.00
tblConstructionPhase	NumDays	0.00	4.00
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tblConstructionPhase	NumDays	0.00	3.00
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tblConstructionPhase	NumDays	0.00	10.00
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tblConstructionPhase	NumDays	0.00	4.00
tblConstructionPhase	NumDays	0.00	4.00
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tblConstructionPhase	NumDays	0.00	17.00
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tblConstructionPhase	PhaseEndDate	3/30/2016	1/23/2016
tblConstructionPhase	PhaseEndDate	1/14/2015	1/8/2015
tblConstructionPhase	PhaseEndDate	6/10/2016	5/22/2016
tblConstructionPhase	PhaseEndDate	6/24/2016	2/27/2016
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tblConstructionPhase	PhaseEndDate	8/18/2016	8/20/2016
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tblConstructionPhase	PhaseStartDate	12/24/2015	10/18/2015
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tblConstructionPhase	PhaseStartDate	3/26/2016	2/28/2016
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tblGrading	AcresOfGrading	0.00	44.50
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tblGrading	AcresOfGrading	0.00	0.50
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tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	6.38	1.13

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tblOffRoadEquipment	HorsePower	226.00	350.00
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tblOffRoadEquipment	HorsePower	174.00	162.00
tblOffRoadEquipment	HorsePower	174.00	250.00
tblOffRoadEquipment	HorsePower	174.00	162.00
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tblOffRoadEquipment	HorsePower	97.00	75.00
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tblOffRoadEquipment	HorsePower	97.00	125.00



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tblOffRoadEquipment	HorsePower	400.00	459.00
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tblOffRoadEquipment	UsageHours	8.00	1.00
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tblOffRoadEquipment	UsageHours	8.00	0.00



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tb\OffRoadEquipment	UsageHours	8.00	6.00
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tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00















tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblTripsAndVMT	HaulingTripNumber	475.00	448.00
tblTripsAndVMT	HaulingTripNumber	61.00	58.00
tblTripsAndVMT	HaulingTripNumber	43.00	42.00
tblTripsAndVMT	HaulingTripNumber	23.00	22.00
tblTripsAndVMT	HaulingTripNumber	59.00	56.00
tblTripsAndVMT	HaulingTripNumber	50.00	48.00
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tblTripsAndVMT	VendorTripLength	7.30	60.00
tblTripsAndVMT	VendorTripLength	7.30	80.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
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tblTripsAndVMT	VendorTripLength	7.30	20.00
tblTripsAndVMT	VendorTripLength	7.30	60.00
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tblTripsAndVMT	VendorTripLength	7.30	40.00
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tblTripsAndVMT	VendorTripLength	7.30	60.00
tblTripsAndVMT	VendorTripLength	7.30	60.00

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tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00





tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripNumber	18.00	34.00
tblTripsAndVMT	WorkerTripNumber	13.00	6.00
tblTripsAndVMT	WorkerTripNumber	25.00	10.00
tblTripsAndVMT	WorkerTripNumber	70.00	60.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblTripsAndVMT	WorkerTripNumber	38.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	28.00	22.00
tblTripsAndVMT	WorkerTripNumber	23.00	14.00
tblTripsAndVMT	WorkerTripNumber	50.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	28.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	18.00	8.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00
tblTripsAndVMT	WorkerTripNumber	63.00	40.00
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tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	40.00
tblTripsAndVMT	WorkerTripNumber	18.00	26.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00

tblTripsAndVMT	WorkerTripNumber	25.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	16.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	24.00
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tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
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tblTripsAndVMT	WorkerTripNumber	8.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	22.00
tblTripsAndVMT	WorkerTripNumber	8.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	8.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	23.00	12.00

tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblTripsAndVMT	WorkerTripNumber	58.00	40.00
tblTripsAndVMT	WorkerTripNumber	43.00	12.00
tblTripsAndVMT	WorkerTripNumber	33.00	12.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	20.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	26.00
tblTripsAndVMT	WorkerTripNumber	18.00	8.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	71.2902	817.3886			1,129.0255	33.9069	1,162.4805	113.3190	31.2849	144.2108			90,509.6921	25.2767	0.0000	91,040.5032
2016	15.7882	177.2516			312.0207	7.2147	319.2355	31.3057	6.6537	37.9594			22,329.4134	6.2574	0.0000	22,460.8182
<b>Total</b>	<b>87.0784</b>	<b>994.6402</b>			<b>1,441.05</b>	<b>41.1217</b>	<b>1,481.72</b>	<b>144.6247</b>	<b>37.9386</b>	<b>182.1701</b>			<b>112,839.11</b>	<b>31.5341</b>	<b>0</b>	<b>#####</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	71.2902	817.3885			313.6231	33.9069	347.0780	31.8290	31.2849	62.7207			90,509.6921	25.2767	0.0000	91,040.5031

2016	15.7882	177.2516			86.5634	7.2147	93.7781	8.7789	6.6537	15.4326			22,329.413 3	6.2574	0.0000	22,460.81 82
<b>Total</b>	<b>87.0784</b>	<b>994.6402</b>			<b>400.1864</b>	<b>41.1217</b>	<b>440.8561</b>	<b>40.6079</b>	<b>37.9386</b>	<b>78.1533</b>			<b>112,839.11</b>	<b>31.5341</b>	<b>0</b>	<b>#####</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>72.23</b>	<b>0</b>	<b>70.25</b>	<b>71.92</b>	<b>0</b>	<b>57.1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000		0.0000
Energy	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
<b>Total</b>	<b>0</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000		0.0000
Energy	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000



Mobile	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
<b>Total</b>	<b>0</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Carpinteria Material Yards	Site Preparation	1/5/2015	1/22/2015	5	14	
2	Y Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
3	Hwy 150A Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
4	Hwy 150B Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
5	Hwy 150C Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
6	Hwy 150D Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
7	Santa Ana Material Yard	Site Preparation	1/5/2015	1/8/2015	5	4	
8	Survey	Site Preparation	1/5/2015	1/27/2015	5	17	Subtransmission Activity1
9	Material Staging Yards	Site Preparation	1/28/2015	8/18/2016	5	407	Subtransmission Activity2
10	Tree Trimming	Site Preparation	1/28/2015	2/16/2015	5	14	Subtransmission Activity3
11	R/W Clearing	Grading	2/17/2015	3/16/2015	5	20	Subtransmission Activity4
12	Retaining Wall Structures	Site Preparation	3/13/2015	1/13/2016	5	150	Retaining Wall
13	Carpinteria Civil	Trenching	3/16/2015	3/29/2015	5	10	Substation Activity1
14	Santa Clara Civil	Trenching	3/16/2015	4/4/2015	5	14	Substation Activity5
15	Roads and Landing Work	Grading	3/17/2015	4/23/2015	5	28	Subtransmission Activity5
16	Guard Structure Installation	Building Construction	3/17/2015	4/1/2015	5	12	Subtransmission Activity6
17	Carpinteria Electrical	Site Preparation	3/30/2015	9/13/2015	5	120	Substation Activity2
18	Santa Clara Electrical	Site Preparation	4/5/2015	7/11/2015	5	70	Substation Activity6

19	Remove Existing Conductor	Trenching	5/5/2015	6/17/2015	5	32	Subtransmission Activity7
20	Install TSP foundation	Building Construction	5/11/2015	12/31/2015	5	169	Subtransmission Activity8
21	TSP Haul	Site Preparation	5/14/2015	7/15/2015	5	45	Subtransmission Activity9
22	Casitas Civil	Trenching	5/14/2015	5/27/2015	5	10	Substation Activity9
23	Install Conductor	Site Preparation	5/16/2015	7/14/2015	5	44	Subtransmission Activity10
24	TSP Assembly	Site Preparation	5/18/2015	9/17/2015	5	89	Subtransmission Activity11
25	TSP Erection	Site Preparation	5/21/2015	9/16/2015	5	85	Subtransmission Activity12
26	Casitas Electrical	Site Preparation	5/28/2015	8/5/2015	5	50	Substation Activity10
27	LST Removal	Site Preparation	6/18/2015	5/2/2016	5	228	Subtransmission Activity13
28	LST Foundation Removal	Demolition	6/25/2015	10/26/2015	5	88	Subtransmission Activity14
29	Seg4 Remove Existing Conductor & CW	Demolition	6/25/2015	6/30/2015	5	4	Seg 4 Remove Activity1
30	Site 132 Brushing, Roads & Landing Work	Site Preparation	6/25/2015	6/25/2015	5	1	Seg 4 Activity 01
31	Site 128 Brushing, Roads & Landing Work	Site Preparation	6/25/2015	6/29/2015	5	3	Seg 4 Activity 05
32	Site 99 Install J-Tower Foundations	Site Preparation	6/25/2015	6/27/2015	5	3	Seg 4 Activity 09
33	Site 97 Install J-Tower Footings	Site Preparation	6/25/2015	6/27/2015	5	3	Seg 4 Activity 11
34	Site 132 LST Removal	Site Preparation	6/26/2015	6/29/2015	5	2	Seg 4 Activity 02
35	Site 99 J-Tower Assembly & Erection	Site Preparation	6/28/2015	6/29/2015	5	1	Seg 4 Activity 10
36	Site 97 J-Tower Assembly & Erection	Site Preparation	6/28/2015	7/1/2015	5	3	Seg 4 Activity 12
37	Site 132 Install J-Tower Footings	Site Preparation	6/30/2015	7/2/2015	5	3	Seg 4 Activity 03
38	Site 128 LST Removal	Site Preparation	6/30/2015	7/1/2015	5	2	Seg 4 Activity 06
39	Wood Pole Removal	Site Preparation	7/1/2015	7/6/2015	5	4	Subtransmission Activity15
40	Seg 4 LST Removal	Site Preparation	7/1/2015	7/10/2015	5	8	Seg 4 Remove Activity2
41	Site 128 Install J-Tower Footings	Site Preparation	7/2/2015	7/6/2015	5	3	Seg 4 Activity 07
42	Site 132 J-Tower Assembly & Erection	Site Preparation	7/3/2015	7/7/2015	5	3	Seg 4 Activity 04
43	Site 128 J-Tower Assembly & Erection	Site Preparation	7/7/2015	7/9/2015	5	3	Seg 4 Activity 08
44	Seg 4 LST Foundation Removal	Demolition	7/11/2015	7/16/2015	5	4	Seg 4 Remove Activity3
45	Santa Clara Maintenance	Site Preparation	7/12/2015	10/17/2015	5	70	Substation Activity7
46	Casitas Maintenece	Site Preparation	8/6/2015	10/14/2015	5	50	Substation Activity11
47	Carpinteria Maintenance	Site Preparation	9/14/2015	1/3/2016	5	80	Substation Activity3
48	Casitas Test	Site Preparation	10/15/2015	12/23/2015	5	50	Substation Activity12
49	Santa Clara Test	Site Preparation	10/18/2015	1/23/2016	5	70	Substation Activity8

50	Carpinteria Test	Site Preparation	1/4/2016	5/22/2016	5	100	Substation Activity4
51	Golita Electrical	Site Preparation	1/24/2016	2/27/2016	5	25	Substation Activity13
52	Santa Barbara Electrical	Site Preparation	2/22/2016	3/25/2016	5	25	Substation Activity15
53	Golita Test	Site Preparation	2/28/2016	4/2/2016	5	25	Substation Activity14
54	Santa Barbara Test	Site Preparation	3/28/2016	5/1/2016	5	25	Substation Activity16
55	Ortega Electrical	Site Preparation	4/3/2016	4/16/2016	5	10	Substation Activity17
56	Ortega Test	Site Preparation	4/17/2016	4/30/2016	5	10	Substation Activity18
57	LWS Pole Haul	Site Preparation	5/24/2016	5/29/2016	5	4	Subtransmission Activity16
58	LWS Pole Assembly	Site Preparation	5/30/2016	6/2/2016	5	4	Subtransmission Activity17
59	Instal LWS Pole	Site Preparation	6/5/2016	6/8/2016	5	4	Subtransmission Activity18
60	Install PRGW&FRC	Site Preparation	6/9/2016	7/9/2016	5	21	Subtransmission Activity19
61	Guard Structure Removal	Demolition	7/10/2016	7/20/2016	5	9	Subtransmission Activity20
62	Duct Bank Installation	Site Preparation	7/21/2016	7/25/2016	5	3	Subtransmission Activity21
63	UG Cable Installation	Site Preparation	7/26/2016	7/26/2016	5	1	Subtransmission Activity22
64	Restoration	Site Preparation	7/27/2016	8/20/2016	5	17	Subtransmission Activity23

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Carpinteria Material Yards	Bore/Drill Rigs	1	6.00	85	0.50
Carpinteria Material Yards	Graders	0	8.00	174	0.41
Carpinteria Material Yards	Graders	1	8.00	250	0.41
Carpinteria Material Yards	Off-Highway Trucks	1	2.00	450	0.38
Carpinteria Material Yards	Off-Highway Trucks	1	8.00	300	0.38
Carpinteria Material Yards	Plate Compactors	1	8.00	100	0.43
Carpinteria Material Yards	Rubber Tired Dozers	1	8.00	150	0.40
Carpinteria Material Yards	Rubber Tired Loaders	1	8.00	250	0.36

Carpinteria Material Yards	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Y Material Yard	Bore/Drill Rigs	1	2.00	85	0.50
Y Material Yard	Graders	0	8.00	174	0.41
Y Material Yard	Graders	1	1.00	250	0.41
Y Material Yard	Off-Highway Trucks	1	2.00	450	0.38
Y Material Yard	Off-Highway Trucks	1	4.00	300	0.38
Y Material Yard	Plate Compactors	1	1.00	100	0.43
Y Material Yard	Rubber Tired Dozers	1	1.00	150	0.40
Y Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hwy 150A Material Yard	Bore/Drill Rigs	1	2.00	85	0.50
Hwy 150A Material Yard	Graders	0	8.00	174	0.41
Hwy 150A Material Yard	Graders	1	1.00	250	0.41
Hwy 150A Material Yard	Off-Highway Trucks	1	2.00	450	0.38
Hwy 150A Material Yard	Off-Highway Trucks	1	4.00	300	0.38
Hwy 150A Material Yard	Plate Compactors	1	1.00	100	0.43
Hwy 150A Material Yard	Rubber Tired Dozers	1	1.00	150	0.40
Hwy 150A Material Yard	Rubber Tired Loaders	1	8.00	250	0.36
Hwy 150A Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hwy 150B Material Yard	Bore/Drill Rigs	1	2.00	85	0.50
Hwy 150B Material Yard	Graders	0	8.00	174	0.41
Hwy 150B Material Yard	Off-Highway Trucks	1	4.00	300	0.38
Hwy 150B Material Yard	Plate Compactors	1	2.00	100	0.43
Hwy 150B Material Yard	Rubber Tired Dozers	1	2.00	150	0.40
Hwy 150B Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hwy 150C Material Yard	Bore/Drill Rigs	1	2.00	85	0.50
Hwy 150C Material Yard	Graders	0	8.00	174	0.41
Hwy 150C Material Yard	Off-Highway Trucks	1	4.00	300	0.38
Hwy 150C Material Yard	Plate Compactors	1	2.00	100	0.43
Hwy 150C Material Yard	Rubber Tired Dozers	1	2.00	150	0.40
Hwy 150C Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Hwy 150D Material Yard	Bore/Drill Rigs	1	6.00	85	0.50

Hwy 150D Material Yard	Graders	0	8.00	174	0.41
Hwy 150D Material Yard	Graders	1	8.00	250	0.41
Hwy 150D Material Yard	Off-Highway Trucks	1	2.00	450	0.38
Hwy 150D Material Yard	Off-Highway Trucks	1	8.00	300	0.38
Hwy 150D Material Yard	Plate Compactors	1	8.00	100	0.43
Hwy 150D Material Yard	Rubber Tired Dozers	1	8.00	150	0.40
Hwy 150D Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Santa Ana Material Yard	Bore/Drill Rigs	1	6.00	85	0.50
Santa Ana Material Yard	Graders	0	8.00	174	0.41
Santa Ana Material Yard	Graders	1	8.00	250	0.41
Santa Ana Material Yard	Off-Highway Trucks	1	2.00	450	0.38
Santa Ana Material Yard	Off-Highway Trucks	1	8.00	300	0.38
Santa Ana Material Yard	Plate Compactors	1	8.00	100	0.43
Santa Ana Material Yard	Rubber Tired Dozers	1	8.00	150	0.40
Santa Ana Material Yard	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Survey	Graders	1	0.00	162	0.41
Survey	Off-Highway Trucks	1	0.00	300	0.38
Survey	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Material Staging Yards	Cranes	1	2.00	350	0.29
Material Staging Yards	Forklifts	1	6.00	125	0.20
Material Staging Yards	Graders	1	0.00	162	0.41
Material Staging Yards	Off-Highway Trucks	1	4.00	300	0.38
Material Staging Yards	Off-Highway Trucks	1	8.00	300	0.38
Material Staging Yards	Off-Highway Trucks	1	2.00	400	0.38
Material Staging Yards	Tractors/Loaders/Backhoes	1	0.00	160	0.37
Tree Trimming	Graders	1	0.00	162	0.41
Tree Trimming	Off-Highway Trucks	1	8.00	380	0.38
Tree Trimming	Off-Highway Trucks	1	8.00	300	0.38
Tree Trimming	Other General Industrial Equipment	1	4.00	50	0.34
Tree Trimming	Tractors/Loaders/Backhoes	1	0.00	75	0.37
R/W Clearing	Concrete/Industrial Saws	1	0.00	81	0.73

R/W Clearing	Cranes	1	0.00	350	0.29
R/W Clearing	Forklifts	1	0.00	125	0.20
R/W Clearing	Graders	1	6.00	250	0.41
R/W Clearing	Off-Highway Trucks	1	4.00	450	0.38
R/W Clearing	Off-Highway Trucks	1	8.00	300	0.38
R/W Clearing	Off-Highway Trucks	1	8.00	300	0.38
R/W Clearing	Rubber Tired Dozers	1	0.00	358	0.40
R/W Clearing	Tractors/Loaders/Backhoes	1	6.00	125	0.37
R/W Clearing	Tractors/Loaders/Backhoes	1	6.00	150	0.37
Retaining Wall Structures	Excavators	5	4.00	70	0.38
Retaining Wall Structures	Graders	0	8.00	174	0.41
Retaining Wall Structures	Off-Highway Trucks	6	4.00	300	0.38
Retaining Wall Structures	Off-Highway Trucks	5	6.00	350	0.38
Retaining Wall Structures	Off-Highway Trucks	5	8.00	300	0.38
Retaining Wall Structures	Off-Highway Trucks	2	4.00	450	0.38
Retaining Wall Structures	Tractors/Loaders/Backhoes	5	4.00	125	0.37
Carpinteria Civil	Bore/Drill Rigs	1	6.00	305	0.50
Carpinteria Civil	Cranes	1	4.00	180	0.29
Carpinteria Civil	Forklifts	1	2.00	75	0.20
Carpinteria Civil	Graders	1	0.00	162	0.41
Carpinteria Civil	Off-Highway Trucks	2	2.00	180	0.38
Carpinteria Civil	Off-Highway Trucks	1	6.00	180	0.38
Carpinteria Civil	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Carpinteria Civil	Tractors/Loaders/Backhoes	1	6.00	85	0.37
Carpinteria Civil	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Santa Clara Civil	Forklifts	1	2.00	75	0.20
Santa Clara Civil	Graders	1	0.00	162	0.41
Santa Clara Civil	Off-Highway Trucks	1	2.00	180	0.38
Santa Clara Civil	Off-Highway Trucks	1	6.00	180	0.38
Santa Clara Civil	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Clara Civil	Tractors/Loaders/Backhoes	1	6.00	85	0.37

Roads and Landing Work	Concrete/Industrial Saws	1	0.00	81	0.73
Roads and Landing Work	Cranes	1	2.00	350	0.29
Roads and Landing Work	Excavators	1	4.00	250	0.38
Roads and Landing Work	Forklifts	1	6.00	125	0.20
Roads and Landing Work	Graders	1	6.00	250	0.41
Roads and Landing Work	Off-Highway Trucks	1	4.00	450	0.38
Roads and Landing Work	Off-Highway Trucks	1	2.00	400	0.38
Roads and Landing Work	Off-Highway Trucks	2	8.00	300	0.38
Roads and Landing Work	Other Construction Equipment	1	8.00	110	0.42
Roads and Landing Work	Other General Industrial Equipment	1	8.00	50	0.34
Roads and Landing Work	Plate Compactors	1	6.00	100	0.43
Roads and Landing Work	Rubber Tired Dozers	1	0.00	358	0.40
Roads and Landing Work	Tractors/Loaders/Backhoes	1	4.00	125	0.37
Roads and Landing Work	Tractors/Loaders/Backhoes	1	4.00	150	0.37
Guard Structure Installation	Air Compressors	1	4.00	60	0.48
Guard Structure Installation	Bore/Drill Rigs	1	4.00	210	0.50
Guard Structure Installation	Cranes	1	6.00	350	0.29
Guard Structure Installation	Cranes	1	0.00	350	0.29
Guard Structure Installation	Forklifts	1	0.00	125	0.20
Guard Structure Installation	Off-Highway Trucks	1	4.00	250	0.38
Guard Structure Installation	Off-Highway Trucks	1	8.00	400	0.38
Guard Structure Installation	Off-Highway Trucks	1	0.00	400	0.38
Guard Structure Installation	Off-Highway Trucks	1	8.00	300	0.38
Guard Structure Installation	Tractors/Loaders/Backhoes	2	0.00	75	0.37
Carpinteria Electrical	Aerial Lifts	2	6.00	75	0.31
Carpinteria Electrical	Cranes	1	4.00	180	0.29
Carpinteria Electrical	Cranes	1	6.00	250	0.29
Carpinteria Electrical	Forklifts	1	2.00	75	0.20
Carpinteria Electrical	Graders	1	0.00	162	0.41
Carpinteria Electrical	Off-Highway Trucks	1	2.00	180	0.38
Carpinteria Electrical	Off-Highway Trucks	1	2.00	180	0.38

Carpinteria Electrical	Off-Highway Trucks	2	2.00	180	0.38
Carpinteria Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Clara Electrical	Aerial Lifts	2	6.00	75	0.31
Santa Clara Electrical	Cranes	1	6.00	180	0.29
Santa Clara Electrical	Forklifts	1	2.00	75	0.20
Santa Clara Electrical	Graders	1	0.00	162	0.41
Santa Clara Electrical	Off-Highway Trucks	1	2.00	180	0.38
Santa Clara Electrical	Off-Highway Trucks	2	2.00	180	0.38
Santa Clara Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Remove Existing Conductor	Cranes	2	8.00	350	0.29
Remove Existing Conductor	Cranes	1	0.00	350	0.29
Remove Existing Conductor	Forklifts	1	0.00	125	0.20
Remove Existing Conductor	Off-Highway Trucks	4	8.00	250	0.38
Remove Existing Conductor	Off-Highway Trucks	1	1.00	350	0.38
Remove Existing Conductor	Off-Highway Trucks	2	4.00	450	0.38
Remove Existing Conductor	Off-Highway Trucks	1	0.00	400	0.38
Remove Existing Conductor	Off-Highway Trucks	4	4.00	300	0.38
Remove Existing Conductor	Off-Highway Trucks	2	4.00	300	0.38
Remove Existing Conductor	Other Construction Equipment	1	6.00	350	0.42
Remove Existing Conductor	Other Construction Equipment	1	6.00	300	0.42
Install TSP foundation	Bore/Drill Rigs	1	6.00	125	0.50
Install TSP foundation	Cement and Mortar Mixers	3	2.00	350	0.56
Install TSP foundation	Cranes	1	0.00	350	0.29
Install TSP foundation	Cranes	1	4.00	350	0.29
Install TSP foundation	Forklifts	1	0.00	125	0.20
Install TSP foundation	Off-Highway Trucks	1	4.00	350	0.38
Install TSP foundation	Off-Highway Trucks	1	0.00	400	0.38
Install TSP foundation	Off-Highway Trucks	1	8.00	300	0.38
Install TSP foundation	Tractors/Loaders/Backhoes	1	6.00	125	0.37
TSP Haul	Cranes	1	6.00	350	0.29
TSP Haul	Cranes	1	2.00	350	0.29



TSP Haul	Forklifts	1	6.00	125	0.20
TSP Haul	Graders	1	8.00	162	0.41
TSP Haul	Off-Highway Trucks	1	8.00	400	0.38
TSP Haul	Off-Highway Trucks	1	2.00	400	0.38
TSP Haul	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Casitas Civil	Bore/Drill Rigs	1	6.00	305	0.50
Casitas Civil	Cranes	1	4.00	180	0.29
Casitas Civil	Forklifts	1	2.00	75	0.20
Casitas Civil	Graders	1	0.00	162	0.41
Casitas Civil	Off-Highway Trucks	2	2.00	180	0.38
Casitas Civil	Off-Highway Trucks	1	6.00	180	0.38
Casitas Civil	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Casitas Civil	Tractors/Loaders/Backhoes	1	6.00	85	0.37
Casitas Civil	Tractors/Loaders/Backhoes	1	6.00	75	0.37
Install Conductor	Cranes	2	8.00	350	0.29
Install Conductor	Cranes	1	0.00	350	0.29
Install Conductor	Forklifts	1	0.00	125	0.20
Install Conductor	Graders	1	0.00	162	0.41
Install Conductor	Off-Highway Trucks	4	8.00	250	0.38
Install Conductor	Off-Highway Trucks	1	2.00	350	0.38
Install Conductor	Off-Highway Trucks	2	6.00	350	0.38
Install Conductor	Off-Highway Trucks	1	6.00	350	0.38
Install Conductor	Off-Highway Trucks	2	4.00	450	0.38
Install Conductor	Off-Highway Trucks	1	0.00	400	0.38
Install Conductor	Off-Highway Trucks	4	8.00	300	0.38
Install Conductor	Off-Highway Trucks	2	8.00	300	0.38
Install Conductor	Other Construction Equipment	1	6.00	300	0.42
Install Conductor	Other Construction Equipment	1	6.00	350	0.42
Install Conductor	Tractors/Loaders/Backhoes	1	2.00	125	0.37
TSP Assembly	Air Compressors	1	6.00	60	0.48
TSP Assembly	Cranes	1	8.00	350	0.29

TSP Assembly	Cranes	1	0.00	350	0.29
TSP Assembly	Forklifts	1	0.00	125	0.20
TSP Assembly	Graders	1	0.00	162	0.41
TSP Assembly	Off-Highway Trucks	2	4.00	300	0.38
TSP Assembly	Tractors/Loaders/Backhoes	1	0.00	75	0.37
TSP Erection	Air Compressors	1	4.00	60	0.48
TSP Erection	Cranes	1	0.00	350	0.29
TSP Erection	Cranes	1	8.00	350	0.29
TSP Erection	Forklifts	1	0.00	125	0.20
TSP Erection	Graders	1	0.00	162	0.41
TSP Erection	Off-Highway Trucks	2	4.00	300	0.38
TSP Erection	Off-Highway Trucks	1	0.00	400	0.38
TSP Erection	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Casitas Electrical	Aerial Lifts	2	6.00	75	0.31
Casitas Electrical	Cranes	1	4.00	180	0.29
Casitas Electrical	Forklifts	1	2.00	75	0.20
Casitas Electrical	Graders	1	0.00	162	0.41
Casitas Electrical	Off-Highway Trucks	1	2.00	180	0.38
Casitas Electrical	Off-Highway Trucks	1	2.00	180	0.38
Casitas Electrical	Off-Highway Trucks	2	2.00	180	0.38
Casitas Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
LST Removal	Air Compressors	1	8.00	60	0.48
LST Removal	Cranes	1	6.00	215	0.29
LST Removal	Cranes	1	6.00	350	0.29
LST Removal	Cranes	1	0.00	350	0.29
LST Removal	Forklifts	1	0.00	125	0.20
LST Removal	Graders	1	0.00	162	0.41
LST Removal	Off-Highway Trucks	1	4.00	400	0.38
LST Removal	Off-Highway Trucks	1	0.00	400	0.38
LST Removal	Tractors/Loaders/Backhoes	1	0.00	75	0.37
LST Foundation Removal	Air Compressors	1	8.00	60	0.48

LST Foundation Removal	Concrete/Industrial Saws	1	0.00	81	0.73
LST Foundation Removal	Excavators	1	4.00	250	0.38
LST Foundation Removal	Off-Highway Trucks	1	6.00	350	0.38
LST Foundation Removal	Rubber Tired Dozers	1	0.00	358	0.40
LST Foundation Removal	Tractors/Loaders/Backhoes	1	6.00	125	0.37
Seg4 Remove Existing Conductor & GW	Concrete/Industrial Saws	0	8.00	81	0.73
Seg4 Remove Existing Conductor & GW	Cranes	2	8.00	350	0.29
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	4	4.00	300	0.38
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	4	8.00	250	0.38
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	2	4.00	300	0.38
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	1	6.00	350	0.38
Seg4 Remove Existing Conductor & GW	Off-Highway Trucks	2	4.00	450	0.38
Seg4 Remove Existing Conductor & GW	Other General Industrial Equipment	1	6.00	350	0.34
Seg4 Remove Existing Conductor & GW	Other General Industrial Equipment	1	6.00	300	0.34
Seg4 Remove Existing Conductor & GW	Rubber Tired Dozers	0	1.00	255	0.40
Seg4 Remove Existing Conductor & GW	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Site 132 Brushing, Roads & Landing	Graders	0	8.00	174	0.41
Work					
Site 132 Brushing, Roads & Landing	Off-Highway Trucks	1	6.00	300	0.38
Work					
Site 132 Brushing, Roads & Landing	Off-Highway Trucks	1	8.00	300	0.38
Work					
Site 132 Brushing, Roads & Landing	Other Construction Equipment	1	8.00	50	0.42
Work					
Site 132 Brushing, Roads & Landing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Work					
Site 128 Brushing, Roads & Landing	Excavators	2	3.00	70	0.38
Work					
Site 128 Brushing, Roads & Landing	Graders	0	8.00	174	0.41
Work					
Site 128 Brushing, Roads & Landing	Off-Highway Trucks	2	6.00	300	0.38
Work					
Site 128 Brushing, Roads & Landing	Off-Highway Trucks	1	6.00	350	0.38
Work					
Site 128 Brushing, Roads & Landing	Off-Highway Trucks	1	8.00	300	0.38
Work					
Site 128 Brushing, Roads & Landing	Off-Highway Trucks	1	4.00	450	0.38
Work					
Site 128 Brushing, Roads & Landing	Other Construction Equipment	1	4.00	110	0.42
Work					
Site 128 Brushing, Roads & Landing	Other Construction Equipment	1	8.00	50	0.42
Work					
Site 128 Brushing, Roads & Landing	Rubber Tired Loaders	1	6.00	150	0.36
Work					
Site 128 Brushing, Roads & Landing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Work					

Site 99 Install J-Tower Foundations	Excavators	1	3.00	70	0.38
Site 99 Install J-Tower Foundations	Graders	0	8.00	174	0.41
Site 99 Install J-Tower Foundations	Off-Highway Trucks	2	8.00	300	0.38
Site 99 Install J-Tower Foundations	Off-Highway Trucks	1	8.00	350	0.38
Site 99 Install J-Tower Foundations	Off-Highway Trucks	3	2.00	350	0.38
Site 99 Install J-Tower Foundations	Rubber Tired Loaders	2	6.00	250	0.36
Site 99 Install J-Tower Foundations	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 97 Install J-Tower Footings	Air Compressors	1	6.00	60	0.48
Site 97 Install J-Tower Footings	Excavators	1	6.00	70	0.38
Site 97 Install J-Tower Footings	Forklifts	1	7.00	125	0.20
Site 97 Install J-Tower Footings	Graders	0	8.00	174	0.41
Site 97 Install J-Tower Footings	Graders	0	8.00	174	0.41
Site 97 Install J-Tower Footings	Off-Highway Trucks	1	6.00	300	0.38
Site 97 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 97 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 97 Install J-Tower Footings	Off-Highway Trucks	1	2.00	350	0.38
Site 97 Install J-Tower Footings	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 97 Install J-Tower Footings	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 132 LST Removal	Air Compressors	1	8.00	60	0.48
Site 132 LST Removal	Graders	0	8.00	174	0.41
Site 132 LST Removal	Off-Highway Trucks	1	8.00	300	0.38
Site 132 LST Removal	Off-Highway Trucks	1	4.00	350	0.38
Site 132 LST Removal	Off-Highway Trucks	1	4.00	400	0.38
Site 132 LST Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 99 J-Tower Assembly & Erection	Air Compressors	1	8.00	60	0.48
Site 99 J-Tower Assembly & Erection	Forklifts	1	7.00	125	0.20
Site 99 J-Tower Assembly & Erection	Graders	0	8.00	174	0.41
Site 99 J-Tower Assembly & Erection	Off-Highway Trucks	2	6.00	300	0.38
Site 99 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	400	0.38
Site 99 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38
Site 99 J-Tower Assembly & Erection	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Site 97 J-Tower Assembly & Erection	Air Compressors	1	8.00	60	0.48
Site 97 J-Tower Assembly & Erection	Forklifts	1	7.00	125	0.20
Site 97 J-Tower Assembly & Erection	Graders	0	8.00	174	0.41
Site 97 J-Tower Assembly & Erection	Off-Highway Trucks	2	6.00	300	0.38
Site 97 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	400	0.38
Site 97 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38
Site 97 J-Tower Assembly & Erection	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 132 Install J-Tower Footings	Graders	0	8.00	174	0.41
Site 132 Install J-Tower Footings	Off-Highway Trucks	1	8.00	400	0.38
Site 132 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 132 Install J-Tower Footings	Off-Highway Trucks	2	8.00	300	0.38
Site 132 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 132 Install J-Tower Footings	Off-Highway Trucks	3	3.00	350	0.38
Site 132 Install J-Tower Footings	Rubber Tired Loaders	2	6.00	250	0.36
Site 132 Install J-Tower Footings	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 128 LST Removal	Air Compressors	1	8.00	60	0.48
Site 128 LST Removal	Graders	0	8.00	174	0.41
Site 128 LST Removal	Off-Highway Trucks	1	8.00	300	0.38
Site 128 LST Removal	Off-Highway Trucks	1	4.00	350	0.38
Site 128 LST Removal	Off-Highway Trucks	1	4.00	400	0.38
Site 128 LST Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Wood Pole Removal	Air Compressors	1	5.00	60	0.48
Wood Pole Removal	Cranes	1	9.00	350	0.29
Wood Pole Removal	Cranes	1	0.00	350	0.29
Wood Pole Removal	Forklifts	1	0.00	125	0.20
Wood Pole Removal	Graders	1	0.00	162	0.41
Wood Pole Removal	Off-Highway Trucks	1	9.00	250	0.38
Wood Pole Removal	Off-Highway Trucks	2	9.00	300	0.38
Wood Pole Removal	Off-Highway Trucks	1	9.00	400	0.38
Wood Pole Removal	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Seg 4 LST Removal	Air Compressors	1	8.00	60	0.48

Seg 4 LST Removal	Cranes	1	6.00	215	0.29
Seg 4 LST Removal	Cranes	1	6.00	350	0.29
Seg 4 LST Removal	Graders	0	8.00	174	0.41
Seg 4 LST Removal	Off-Highway Trucks	1	4.00	400	0.38
Seg 4 LST Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 128 Install J-Tower Footings	Excavators	1	3.00	70	0.38
Site 128 Install J-Tower Footings	Graders	0	8.00	174	0.41
Site 128 Install J-Tower Footings	Off-Highway Trucks	1	6.00	400	0.38
Site 128 Install J-Tower Footings	Off-Highway Trucks	1	8.00	300	0.38
Site 128 Install J-Tower Footings	Off-Highway Trucks	1	8.00	350	0.38
Site 128 Install J-Tower Footings	Off-Highway Trucks	1	2.00	350	0.38
Site 128 Install J-Tower Footings	Rubber Tired Loaders	1	6.00	250	0.36
Site 128 Install J-Tower Footings	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 132 J-Tower Assembly & Erection	Air Compressors	1	8.00	60	0.48
Site 132 J-Tower Assembly & Erection	Forklifts	1	7.00	125	0.20
Site 132 J-Tower Assembly & Erection	Graders	0	8.00	174	0.41
Site 132 J-Tower Assembly & Erection	Off-Highway Trucks	2	6.00	300	0.38
Site 132 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	400	0.38
Site 132 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38
Site 132 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38
Site 132 J-Tower Assembly & Erection	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site 128 J-Tower Assembly & Erection	Air Compressors	1	8.00	60	0.48
Site 128 J-Tower Assembly & Erection	Forklifts	1	7.00	125	0.20
Site 128 J-Tower Assembly & Erection	Graders	1	8.00	174	0.41
Site 128 J-Tower Assembly & Erection	Off-Highway Trucks	2	6.00	300	0.38
Site 128 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	400	0.38
Site 128 J-Tower Assembly & Erection	Off-Highway Trucks	1	6.00	350	0.38
Site 128 J-Tower Assembly & Erection	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Seg 4 LST Foundation Removal	Air Compressors	1	8.00	60	0.48
Seg 4 LST Foundation Removal	Concrete/Industrial Saws	0	8.00	81	0.73
Seg 4 LST Foundation Removal	Excavators	1	4.00	250	0.38

Seg 4 LST Foundation Removal	Off-Highway Trucks	1	6.00	350	0.38
Seg 4 LST Foundation Removal	Rubber Tired Dozers	0	1.00	255	0.40
Seg 4 LST Foundation Removal	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Seg 4 LST Foundation Removal	Tractors/Loaders/Backhoes	1	6.00	125	0.37
Santa Clara Maintenance	Graders	1	0.00	162	0.41
Santa Clara Maintenance	Off-Highway Trucks	1	6.00	180	0.38
Santa Clara Maintenance	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Casitas Maintenace	Graders	1	8.00	162	0.41
Casitas Maintenace	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Carpinteria Maintenance	Graders	1	0.00	162	0.41
Carpinteria Maintenance	Off-Highway Trucks	1	6.00	180	0.38
Carpinteria Maintenance	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Casitas Test	Graders	1	0.00	162	0.41
Casitas Test	Off-Highway Trucks	1	2.00	180	0.38
Casitas Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Clara Test	Graders	1	0.00	162	0.41
Santa Clara Test	Off-Highway Trucks	1	2.00	180	0.38
Santa Clara Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Carpinteria Test	Graders	1	0.00	162	0.41
Carpinteria Test	Off-Highway Trucks	1	2.00	180	0.38
Carpinteria Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Golita Electrical	Graders	1	0.00	162	0.41
Golita Electrical	Off-Highway Trucks	1	2.00	180	0.38
Golita Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Barbara Electrical	Graders	1	0.00	162	0.41
Santa Barbara Electrical	Off-Highway Trucks	1	2.00	180	0.38
Santa Barbara Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Golita Test	Graders	1	0.00	162	0.41
Golita Test	Off-Highway Trucks	1	2.00	180	0.38
Golita Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Santa Barbara Test	Graders	1	0.00	162	0.41

Santa Barbara Test	Off-Highway Trucks	1	2.00	180	0.38
Santa Barbara Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Ortega Electrical	Graders	1	0.00	162	0.41
Ortega Electrical	Off-Highway Trucks	1	2.00	180	0.38
Ortega Electrical	Tractors/Loaders/Backhoes	1	0.00	75	0.37
Ortega Test	Graders	1	0.00	162	0.41
Ortega Test	Off-Highway Trucks	1	2.00	180	0.38
Ortega Test	Tractors/Loaders/Backhoes	1	0.00	75	0.37
LWS Pole Haul	Cranes	1	0.00	350	0.29
LWS Pole Haul	Cranes	1	6.00	350	0.29
LWS Pole Haul	Forklifts	1	0.00	125	0.20
LWS Pole Haul	Graders	1	0.00	162	0.41
LWS Pole Haul	Off-Highway Trucks	1	8.00	400	0.38
LWS Pole Haul	Off-Highway Trucks	1	0.00	400	0.38
LWS Pole Haul	Tractors/Loaders/Backhoes	1	0.00	75	0.37
LWS Pole Assembly	Air Compressors	1	4.00	60	0.48
LWS Pole Assembly	Cranes	1	8.00	350	0.29
LWS Pole Assembly	Cranes	1	2.00	350	0.29
LWS Pole Assembly	Forklifts	1	6.00	125	0.20
LWS Pole Assembly	Graders	1	8.00	162	0.41
LWS Pole Assembly	Off-Highway Trucks	1	2.00	400	0.38
LWS Pole Assembly	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Instal LWS Pole	Bore/Drill Rigs	1	4.00	210	0.50
Instal LWS Pole	Cranes	1	6.00	350	0.29
Instal LWS Pole	Cranes	1	0.00	350	0.29
Instal LWS Pole	Forklifts	1	6.00	125	0.20
Instal LWS Pole	Graders	1	0.00	162	0.41
Instal LWS Pole	Off-Highway Trucks	1	6.00	250	0.38
Instal LWS Pole	Off-Highway Trucks	1	8.00	400	0.38
Instal LWS Pole	Off-Highway Trucks	1	0.00	400	0.38
Instal LWS Pole	Tractors/Loaders/Backhoes	1	0.00	125	0.37



Install PRGW&FRC	Cranes	1	8.00	350	0.29
Install PRGW&FRC	Cranes	1	0.00	350	0.29
Install PRGW&FRC	Forklifts	1	0.00	125	0.20
Install PRGW&FRC	Graders	1	0.00	162	0.41
Install PRGW&FRC	Off-Highway Trucks	4	8.00	250	0.38
Install PRGW&FRC	Off-Highway Trucks	1	2.00	350	0.38
Install PRGW&FRC	Off-Highway Trucks	2	6.00	350	0.38
Install PRGW&FRC	Off-Highway Trucks	1	6.00	350	0.38
Install PRGW&FRC	Off-Highway Trucks	2	4.00	450	0.38
Install PRGW&FRC	Off-Highway Trucks	1	0.00	400	0.38
Install PRGW&FRC	Off-Highway Trucks	3	8.00	300	0.38
Install PRGW&FRC	Off-Highway Trucks	2	8.00	300	0.38
Install PRGW&FRC	Other Construction Equipment	1	6.00	300	0.42
Install PRGW&FRC	Other Construction Equipment	1	6.00	350	0.42
Install PRGW&FRC	Tractors/Loaders/Backhoes	1	2.00	125	0.37
Guard Structure Removal	Air Compressors	1	4.00	60	0.48
Guard Structure Removal	Bore/Drill Rigs	1	0.00	210	0.50
Guard Structure Removal	Concrete/Industrial Saws	1	0.00	81	0.73
Guard Structure Removal	Cranes	2	0.00	350	0.29
Guard Structure Removal	Cranes	1	6.00	350	0.29
Guard Structure Removal	Forklifts	1	0.00	125	0.20
Guard Structure Removal	Off-Highway Trucks	1	4.00	250	0.38
Guard Structure Removal	Off-Highway Trucks	1	0.00	350	0.38
Guard Structure Removal	Off-Highway Trucks	1	8.00	400	0.38
Guard Structure Removal	Off-Highway Trucks	4	0.00	300	0.38
Guard Structure Removal	Rubber Tired Dozers	1	0.00	358	0.40
Guard Structure Removal	Tractors/Loaders/Backhoes	2	0.00	75	0.37
Duct Bank Installation	Air Compressors	1	4.00	60	0.48
Duct Bank Installation	Cement and Mortar Mixers	3	2.00	350	0.56
Duct Bank Installation	Graders	1	0.00	162	0.41
Duct Bank Installation	Off-Highway Trucks	2	4.00	300	0.38

Duct Bank Installation	Off-Highway Trucks	2	6.00	350	0.38
Duct Bank Installation	Off-Highway Trucks	1	6.00	275	0.38
Duct Bank Installation	Off-Highway Trucks	1	8.00	300	0.38
Duct Bank Installation	Off-Highway Trucks	1	4.00	450	0.38
Duct Bank Installation	Tractors/Loaders/Backhoes	1	6.00	125	0.37
UG Cable Installation	Cranes	1	6.00	350	0.29
UG Cable Installation	Graders	1	8.00	162	0.41
UG Cable Installation	Off-Highway Trucks	1	6.00	250	0.38
UG Cable Installation	Off-Highway Trucks	2	6.00	350	0.38
UG Cable Installation	Off-Highway Trucks	1	6.00	350	0.38
UG Cable Installation	Other Construction Equipment	1	6.00	300	0.42
UG Cable Installation	Tractors/Loaders/Backhoes	1	8.00	75	0.37
Restoration	Cranes	1	0.00	350	0.29
Restoration	Forklifts	1	0.00	125	0.20
Restoration	Graders	1	6.00	250	0.41
Restoration	Off-Highway Trucks	1	8.00	300	0.38
Restoration	Off-Highway Trucks	1	4.00	459	0.38
Restoration	Plate Compactors	1	4.00	100	0.43
Restoration	Plate Compactors	1	4.00	100	0.43
Restoration	Tractors/Loaders/Backhoes	1	4.00	125	0.37

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Carpinteria Material Yard	7	34.00	5.00	448.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Y Material Yard	6	28.00	5.00	58.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Hwy 150A Material Yard	7	26.00	5.00	42.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Hwy 150B Material Yard	4	22.00	5.00	22.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Hwy 150C Material Yard	4	22.00	5.00	18.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Hwy 150D Material Yard	6	26.00	5.00	56.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT
Santa Ana Material Yard	6	26.00	5.00	48.00	10.80	20.00	20.00	LD_Mix	MHDT	HHDT

Survey	3	8.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Material Staging Yards	7	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
Tree Trimming	5	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
R/W Clearing	10	10.00	0.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
Retaining Wall Structures	28	60.00	5.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Carpinteria Civil	10	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Clara Civil	6	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Roads and Landing Work	15	10.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
Guard Structure Installation	11	12.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Carpinteria Electrical	11	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Clara Electrical	9	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Remove Existing Conductor	20	40.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Install TSP foundation	11	12.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
TSP Haul	7	8.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
Casitas Civil	10	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Install Conductor	25	40.00	3.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
TSP Assembly	8	16.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
TSP Erection	9	16.00	4.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Casitas Electrical	10	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
LST Removal	9	16.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
LST Foundation Removal	6	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
Seg4 Remove Existing Conductor & GW	17	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site 132 Brushing, Roads & Landing Work	3	10.00	1.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 128 Brushing, Roads & Landing Work	10	10.00	1.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 99 Install J-Tower Foundations	9	16.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 97 Install J-Tower Footings	7	16.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 132 LST Removal	4	16.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Site 99 J-Tower Assembly & Erection	6	24.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 97 J-Tower Assembly & Erection	6	24.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 132 Install J-Tower Footings	10	12.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 128 LST Removal	4	16.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT

Wood Pole Removal	10	12.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Seg 4 LST Removal	4	16.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Site 128 Install J-Tower Footings	6	12.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 132 J-Tower Assembly & Erection	7	24.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Site 128 J-Tower Assembly & Erection	8	24.00	2.00	0.00	10.80	60.00	20.00	LD_Mix	MHDT	HHDT
Seg 4 LST Foundation Removal	4	8.00	1.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Santa Clara Maintenance	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Casitas Maintenance	2	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Carpinteria Maintenance	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Casitas Test	3	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Clara Test	3	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Carpinteria Test	3	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Golita Electrical	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Barbara Electrical	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Golita Test	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Santa Barbara Test	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Ortega Electrical	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Ortega Test	3	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
LWS Pole Haul	7	8.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
LWS Pole Assembly	7	16.00	4.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Instal LWS Pole	9	12.00	1.00	0.00	10.80	80.00	20.00	LD_Mix	MHDT	HHDT
Install PRGW&FRC	23	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
Guard Structure Removal	17	12.00	2.00	59.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT
Duct Bank Installation	13	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
UG Cable Installation	8	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	MHDT	HHDT
Restoration	8	14.00	2.00	0.00	10.80	40.00	20.00	LD_Mix	MHDT	HHDT

### 3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Carpinteria Material Yards - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6851	0.0000	6.6851	3.3835	0.0000	3.3835			0.0000			0.0000
Off-Road	3.6222	44.0766				1.8364	1.8364		1.6895	1.6895			3,991.0635	1.1915		4,016.0850
<b>Total</b>	<b>3.6222</b>	<b>44.0766</b>			<b>6.6851</b>	<b>1.8364</b>	<b>8.5216</b>	<b>3.3835</b>	<b>1.6895</b>	<b>5.073</b>			<b>3,991.06</b>	<b>1.1915</b>		<b>4,016.09</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6118	10.8566			94.7070	0.1882	94.8952	9.5401	0.1731	9.7132			2,352.8705	0.0173		2,353.2331
Vendor	0.0605	0.9370			44.2268	0.0230	44.2498	4.4281	0.0212	4.4492			220.0430	1.3600e-003		220.0716
Worker	0.1333	0.1417			54.2991	2.2600e-003	54.3014	5.4606	2.0800e-003	5.4627			288.3267	0.0150		288.6422
<b>Total</b>	<b>0.8055</b>	<b>11.9353</b>			<b>193.2329</b>	<b>0.2135</b>	<b>193.4464</b>	<b>19.4288</b>	<b>0.1964</b>	<b>19.6251</b>			<b>2,861.24</b>	<b>0.0337</b>		<b>2,861.95</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.5571	0.0000	2.5571	1.2942	0.0000	1.2942			0.0000				0.0000
Off-Road	3.6222	44.0766				1.8364	1.8364		1.6895	1.6895			3,991.0635	1.1915			4,016.0850
<b>Total</b>	<b>3.6222</b>	<b>44.0766</b>			<b>2.5571</b>	<b>1.8364</b>	<b>4.3935</b>	<b>1.2942</b>	<b>1.6895</b>	<b>2.9837</b>			<b>3,991.06</b>	<b>1.1915</b>			<b>4,016.09</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6118	10.8566			26.4046	0.1882	26.5928	2.7124	0.1731	2.8855			2,352.8705	0.0173		2,353.2331
Vendor	0.0605	0.9370			12.2311	0.0230	12.2542	1.2328	0.0212	1.2539			220.0430	1.3600e-003		220.0716
Worker	0.1333	0.1417			15.1106	2.2600e-003	15.1128	1.5432	2.0800e-003	1.5453			288.3267	0.0150		288.6422
<b>Total</b>	<b>0.8055</b>	<b>11.9353</b>			<b>53.7463</b>	<b>0.2135</b>	<b>53.9598</b>	<b>5.4884</b>	<b>0.1964</b>	<b>5.6847</b>			<b>2,861.24</b>	<b>0.0337</b>		<b>2,861.95</b>

**3.3 Y Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					1.0879	0.0000	1.0879	0.4507	0.0000	0.4507			0.0000			0.0000
Off-Road	0.9531	11.3172				0.4657	0.4657		0.4285	0.4285			1,185.3626	0.3539		1,192.7941
<b>Total</b>	<b>0.9531</b>	<b>11.3172</b>			<b>1.0879</b>	<b>0.4657</b>	<b>1.5536</b>	<b>0.4507</b>	<b>0.4285</b>	<b>0.8792</b>			<b>1,185.36</b>	<b>0.3539</b>		<b>1,192.79</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2772	4.9194			42.9141	0.0853	42.9994	4.3228	0.0784	4.4013			1,066.1444	7.8200e-003		1,066.3088
Vendor	0.0605	0.9370			44.2268	0.0230	44.2498	4.4281	0.0212	4.4492			220.0430	1.3600e-003		220.0716
Worker	0.1098	0.1167			44.7169	1.8700e-003	44.7188	4.4970	1.7100e-003	4.4987			237.4456	0.0124		237.7053
<b>Total</b>	<b>0.4475</b>	<b>5.9731</b>			<b>131.8578</b>	<b>0.1102</b>	<b>131.968</b>	<b>13.2479</b>	<b>0.1013</b>	<b>13.3492</b>			<b>1,523.63</b>	<b>0.0216</b>		<b>1,524.09</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4161	0.0000	0.4161	0.1724	0.0000	0.1724			0.0000			0.0000
Off-Road	0.9531	11.3172				0.4657	0.4657		0.4285	0.4285			1,185.3626	0.3539		1,192.7941
<b>Total</b>	<b>0.9531</b>	<b>11.3172</b>			<b>0.4161</b>	<b>0.4657</b>	<b>0.8818</b>	<b>0.1724</b>	<b>0.4285</b>	<b>0.6009</b>			<b>1,185.36</b>	<b>0.3539</b>		<b>1,192.79</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2772	4.9194			11.9646	0.0853	12.0499	1.2290	0.0784	1.3075			1,066.1444	7.8200e-003		1,066.3088
Vendor	0.0605	0.9370			12.2311	0.0230	12.2542	1.2328	0.0212	1.2539			220.0430	1.3600e-003		220.0716
Worker	0.1098	0.1167			12.4440	1.8700e-003	12.4459	1.2709	1.7100e-003	1.2726			237.4456	0.0124		237.7053
<b>Total</b>	<b>0.4475</b>	<b>5.9731</b>			<b>36.6397</b>	<b>0.1102</b>	<b>36.7499</b>	<b>3.7327</b>	<b>0.1013</b>	<b>3.834</b>			<b>1,523.63</b>	<b>0.0216</b>		<b>1,524.09</b>

**3.4 Hwy 150A Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9902	0.0000	0.9902	0.4399	0.0000	0.4399			0.0000			0.0000
Off-Road	1.5968	19.8400				0.7567	0.7567		0.6962	0.6962			1,993.1742	0.5951		2,005.6701
<b>Total</b>	<b>1.5968</b>	<b>19.84</b>			<b>0.9902</b>	<b>0.7567</b>	<b>1.7469</b>	<b>0.4399</b>	<b>0.6962</b>	<b>1.1361</b>			<b>1,993.17</b>	<b>0.5951</b>		<b>2,005.67</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					



Hauling	0.2007	3.5623			31.0757	0.0618	31.1375	3.1303	0.0568	3.1871			772.0356	5.6700e-003		772.1546
Vendor	0.0605	0.9370			44.2268	0.0230	44.2498	4.4281	0.0212	4.4492			220.0430	1.3600e-003		220.0716
Worker	0.1019	0.1083			41.5228	1.7300e-003	41.5246	4.1758	1.5900e-003	4.1774			220.4852	0.0115		220.7264
<b>Total</b>	<b>0.3631</b>	<b>4.6077</b>			<b>116.8253</b>	<b>0.0865</b>	<b>116.9119</b>	<b>11.7342</b>	<b>0.0796</b>	<b>11.8137</b>			<b>1,212.56</b>	<b>0.0185</b>		<b>1,212.95</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.3787	0.0000	0.3787	0.1683	0.0000	0.1683			0.0000				0.0000
Off-Road	1.5968	19.8400				0.7567	0.7567		0.6962	0.6962			1,993.1742	0.5951			2,005.6701
<b>Total</b>	<b>1.5968</b>	<b>19.84</b>			<b>0.3787</b>	<b>0.7567</b>	<b>1.1354</b>	<b>0.1683</b>	<b>0.6962</b>	<b>0.8644</b>			<b>1,993.17</b>	<b>0.5951</b>			<b>2,005.67</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2007	3.5623			8.6640	0.0618	8.7258	0.8900	0.0568	0.9468			772.0356	5.6700e-003		772.1546
Vendor	0.0605	0.9370			12.2311	0.0230	12.2542	1.2328	0.0212	1.2539			220.0430	1.3600e-003		220.0716
Worker	0.1019	0.1083			11.5551	1.7300e-003	11.5569	1.1801	1.5900e-003	1.1817			220.4852	0.0115		220.7264
<b>Total</b>	<b>0.3631</b>	<b>4.6077</b>			<b>32.4503</b>	<b>0.0865</b>	<b>32.5368</b>	<b>3.3029</b>	<b>0.0796</b>	<b>3.3824</b>			<b>1,212.56</b>	<b>0.0185</b>		<b>1,212.95</b>



Category	lb/day										lb/day					
Fugitive Dust					0.6250	0.0000	0.6250	0.3220	0.0000	0.3220			0.0000			0.0000
Off-Road	0.7013	7.9111				0.3680	0.3680		0.3386	0.3386			747.4359	0.2231		752.1218
<b>Total</b>	<b>0.7013</b>	<b>7.9111</b>			<b>0.625</b>	<b>0.368</b>	<b>0.993</b>	<b>0.322</b>	<b>0.3386</b>	<b>0.6605</b>			<b>747.4359</b>	<b>0.2231</b>		<b>752.1218</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1052	1.8660			4.5383	0.0324	4.5706	0.4662	0.0298	0.4959			404.3996	2.9700e-003		404.4619
Vendor	0.0605	0.9370			12.2311	0.0230	12.2542	1.2328	0.0212	1.2539			220.0430	1.3600e-003		220.0716
Worker	0.0862	0.0917			9.7774	1.4700e-003	9.7789	0.9986	1.3400e-003	0.9999			186.5644	9.7200e-003		186.7685
<b>Total</b>	<b>0.2519</b>	<b>2.8947</b>			<b>26.5468</b>	<b>0.0568</b>	<b>26.6037</b>	<b>2.6975</b>	<b>0.0523</b>	<b>2.7498</b>			<b>811.007</b>	<b>0.0141</b>		<b>811.302</b>

**3.6 Hwy 150C Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6033	0.0000	1.6033	0.8383	0.0000	0.8383			0.0000			0.0000
Off-Road	0.7013	7.9111				0.3680	0.3680		0.3386	0.3386			747.4359	0.2231		752.1218
<b>Total</b>	<b>0.7013</b>	<b>7.9111</b>			<b>1.6033</b>	<b>0.368</b>	<b>1.9713</b>	<b>0.8383</b>	<b>0.3386</b>	<b>1.1769</b>			<b>747.4359</b>	<b>0.2231</b>		<b>752.1218</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0860	1.5267			13.3182	0.0265	13.3446	1.3416	0.0243	1.3659			330.8724	2.4300e-003		330.9234
Vendor	0.0605	0.9370			44.2268	0.0230	44.2498	4.4281	0.0212	4.4492			220.0430	1.3600e-003		220.0716
Worker	0.0862	0.0917			35.1347	1.4700e-003	35.1362	3.5334	1.3400e-003	3.5347			186.5644	9.7200e-003		186.7685
<b>Total</b>	<b>0.2328</b>	<b>2.5554</b>			<b>92.6796</b>	<b>0.051</b>	<b>92.7306</b>	<b>9.303</b>	<b>0.0469</b>	<b>9.3499</b>			<b>737.4798</b>	<b>0.0135</b>		<b>737.7634</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6133	0.0000	0.6133	0.3207	0.0000	0.3207			0.0000			0.0000
Off-Road	0.7013	7.9111				0.3680	0.3680		0.3386	0.3386			747.4359	0.2231		752.1218
<b>Total</b>	<b>0.7013</b>	<b>7.9111</b>			<b>0.6133</b>	<b>0.368</b>	<b>0.9813</b>	<b>0.3207</b>	<b>0.3386</b>	<b>0.6592</b>			<b>747.4359</b>	<b>0.2231</b>		<b>752.1218</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0860	1.5267			3.7131	0.0265	3.7396	0.3814	0.0243	0.4058			330.8724	2.4300e-003		330.9234
Vendor	0.0605	0.9370			12.2311	0.0230	12.2542	1.2328	0.0212	1.2539			220.0430	1.3600e-003		220.0716
Worker	0.0862	0.0917			9.7774	1.4700e-003	9.7789	0.9986	1.3400e-003	0.9999			186.5644	9.7200e-003		186.7685
<b>Total</b>	<b>0.2328</b>	<b>2.5554</b>			<b>25.7217</b>	<b>0.051</b>	<b>25.7727</b>	<b>2.6128</b>	<b>0.0469</b>	<b>2.6596</b>			<b>737.4798</b>	<b>0.0135</b>		<b>737.7634</b>

**3.7 Hwy 150D Material Yard - 2015**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.3461	0.0000	6.3461	3.3459	0.0000	3.3459			0.0000				0.0000
Off-Road	2.9784	35.5538				1.5455	1.5455		1.4218	1.4218			3,183.2519	0.9503			3,203.2089
<b>Total</b>	<b>2.9784</b>	<b>35.5538</b>			<b>6.3461</b>	<b>1.5455</b>	<b>7.8915</b>	<b>3.3459</b>	<b>1.4218</b>	<b>4.7677</b>			<b>3,183.25</b>	<b>0.9503</b>			<b>3,203.21</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2677	4.7498			41.4343	0.0823	41.5167	4.1738	0.0757	4.2495			1,029.3808	7.5500e-003		1,029.5395
Vendor	0.0605	0.9370			44.2268	0.0230	44.2498	4.4281	0.0212	4.4492			220.0430	1.3600e-003		220.0716
Worker	0.1019	0.1083			41.5228	1.7300e-003	41.5246	4.1758	1.5900e-003	4.1774			220.4852	0.0115		220.7264

<b>Total</b>	<b>0.4301</b>	<b>5.7951</b>			<b>127.1839</b>	<b>0.1071</b>	<b>127.291</b>	<b>12.7776</b>	<b>0.0985</b>	<b>12.8761</b>			<b>1,469.91</b>	<b>0.0204</b>		<b>1,470.34</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.4274	0.0000	2.4274	1.2798	0.0000	1.2798			0.0000				0.0000
Off-Road	2.9784	35.5538				1.5455	1.5455		1.4218	1.4218			3,183.2519	0.9503			3,203.2089
<b>Total</b>	<b>2.9784</b>	<b>35.5538</b>			<b>2.4274</b>	<b>1.5455</b>	<b>3.9728</b>	<b>1.2798</b>	<b>1.4218</b>	<b>2.7016</b>			<b>3,183.25</b>	<b>0.9503</b>			<b>3,203.21</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2677	4.7498			11.5520	0.0823	11.6343	1.1867	0.0757	1.2624			1,029.3808	7.5500e-003		1,029.5395
Vendor	0.0605	0.9370			12.2311	0.0230	12.2542	1.2328	0.0212	1.2539			220.0430	1.3600e-003		220.0716
Worker	0.1019	0.1083			11.5551	1.7300e-003	11.5569	1.1801	1.5900e-003	1.1817			220.4852	0.0115		220.7264
<b>Total</b>	<b>0.4301</b>	<b>5.7951</b>			<b>35.3383</b>	<b>0.1071</b>	<b>35.4454</b>	<b>3.5996</b>	<b>0.0985</b>	<b>3.698</b>			<b>1,469.91</b>	<b>0.0204</b>		<b>1,470.34</b>

**3.8 Santa Ana Material Yard - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3014	0.0000	6.3014	3.3410	0.0000	3.3410			0.0000			0.0000
Off-Road	2.9784	35.5538				1.5455	1.5455		1.4218	1.4218			3,183.2519	0.9503		3,203.2089
<b>Total</b>	<b>2.9784</b>	<b>35.5538</b>			<b>6.3014</b>	<b>1.5455</b>	<b>7.8468</b>	<b>3.341</b>	<b>1.4218</b>	<b>4.7628</b>			<b>3,183.25</b>	<b>0.9503</b>		<b>3,203.21</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2294	4.0712			35.5151	0.0706	35.5857	3.5775	0.0649	3.6424			882.3264	6.4800e-003		882.4624
Vendor	0.0605	0.9370			44.2268	0.0230	44.2498	4.4281	0.0212	4.4492			220.0430	1.3600e-003		220.0716
Worker	0.1019	0.1083			41.5228	1.7300e-003	41.5246	4.1758	1.5900e-003	4.1774			220.4852	0.0115		220.7264
<b>Total</b>	<b>0.3918</b>	<b>5.1166</b>			<b>121.2647</b>	<b>0.0953</b>	<b>121.3601</b>	<b>12.1814</b>	<b>0.0877</b>	<b>12.269</b>			<b>1,322.85</b>	<b>0.0193</b>		<b>1,323.26</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4103	0.0000	2.4103	1.2779	0.0000	1.2779			0.0000			0.0000
Off-Road	2.9784	35.5538				1.5455	1.5455		1.4218	1.4218			3,183.2519	0.9503		3,203.2089

<b>Total</b>	<b>2.9784</b>	<b>35.5538</b>			<b>2.4103</b>	<b>1.5455</b>	<b>3.9557</b>	<b>1.2779</b>	<b>1.4218</b>	<b>2.6998</b>			<b>3,183.25</b>	<b>0.9503</b>		<b>3,203.21</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Hauling	0.2294	4.0712			9.9017	0.0706	9.9723	1.0171	0.0649	1.0820			882.3264	6.4800e-003		882.4624
Vendor	0.0605	0.9370			12.2311	0.0230	12.2542	1.2328	0.0212	1.2539			220.0430	1.3600e-003		220.0716
Worker	0.1019	0.1083			11.5551	1.7300e-003	11.5569	1.1801	1.5900e-003	1.1817			220.4852	0.0115		220.7264
<b>Total</b>	<b>0.3918</b>	<b>5.1166</b>			<b>33.688</b>	<b>0.0953</b>	<b>33.7833</b>	<b>3.43</b>	<b>0.0877</b>	<b>3.5177</b>			<b>1,322.85</b>	<b>0.0193</b>		<b>1,323.26</b>

**3.9 Survey - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000		0.0000
<b>Total</b>	<b>0</b>	<b>0</b>			<b>0.5303</b>	<b>0</b>	<b>0.5303</b>	<b>0.0573</b>	<b>0</b>	<b>0.0573</b>			<b>0</b>	<b>0</b>		<b>0</b>

**Unmitigated Construction Off-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			35.3814	0.0182	35.3996	3.5424	0.0168	3.5592			172.5233	1.0500e-003		172.5454
Worker	0.0314	0.0333			12.7763	5.3000e-004	12.7768	1.2849	4.9000e-004	1.2853			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.07</b>	<b>0.7403</b>			<b>48.1576</b>	<b>0.0188</b>	<b>48.1764</b>	<b>4.8273</b>	<b>0.0173</b>	<b>4.8445</b>			<b>240.3649</b>	<b>4.58E-03</b>		<b>240.4612</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000		0.0000
<b>Total</b>	<b>0</b>	<b>0</b>			<b>0.2028</b>	<b>0</b>	<b>0.2028</b>	<b>0.0219</b>	<b>0</b>	<b>0.0219</b>			<b>0</b>	<b>0</b>		<b>0</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			9.7849	0.0182	9.8031	0.9862	0.0168	1.0030			172.5233	1.0500e-003		172.5454
Worker	0.0314	0.0333			3.5554	5.3000e-004	3.5560	0.3631	4.9000e-004	0.3636			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.07</b>	<b>0.7403</b>			<b>13.3403</b>	<b>0.0188</b>	<b>13.359</b>	<b>1.3493</b>	<b>0.0173</b>	<b>1.3666</b>			<b>240.3649</b>	<b>4.58E-03</b>		<b>240.4612</b>

### 3.10 Material Staging Yards - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.1563	0.0000	0.1563	0.0169	0.0000	0.0169			0.0000				0.0000
Off-Road	1.8169	21.4601				0.8616	0.8616		0.7927	0.7927			2,299.3729	0.6865			2,313.7885
<b>Total</b>	<b>1.8169</b>	<b>21.4601</b>			<b>0.1563</b>	<b>0.8616</b>	<b>1.018</b>	<b>0.0169</b>	<b>0.7927</b>	<b>0.8096</b>			<b>2,299.37</b>	<b>0.6865</b>			<b>2,313.79</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0314	0.0333			12.7763	5.3000e-004	12.7768	1.2849	4.9000e-004	1.2853			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.0314</b>	<b>0.0333</b>			<b>12.7763</b>	<b>5.30E-04</b>	<b>12.7768</b>	<b>1.2849</b>	<b>4.90E-04</b>	<b>1.2853</b>			<b>67.8416</b>	<b>3.53E-03</b>		<b>67.9158</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0598	0.0000	0.0598	6.4600e-003	0.0000	6.4600e-003			0.0000			0.0000
Off-Road	1.8169	21.4601				0.8616	0.8616		0.7927	0.7927			2,299.3729	0.6865		2,313.7885
<b>Total</b>	<b>1.8169</b>	<b>21.4601</b>			<b>0.0598</b>	<b>0.8616</b>	<b>0.9214</b>	<b>6.46E-03</b>	<b>0.7927</b>	<b>0.7992</b>			<b>2,299.37</b>	<b>0.6865</b>		<b>2,313.79</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0314	0.0333			3.5554	5.3000e-004	3.5560	0.3631	4.9000e-004	0.3636			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.0314</b>	<b>0.0333</b>			<b>3.5554</b>	<b>5.30E-04</b>	<b>3.556</b>	<b>0.3631</b>	<b>4.90E-04</b>	<b>0.3636</b>			<b>67.8416</b>	<b>3.53E-03</b>		<b>67.9158</b>

**3.10 Material Staging Yards - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					0.1563	0.0000	0.1563	0.0169	0.0000	0.0169			0.0000			0.0000
Off-Road	1.6686	19.3260				0.7698	0.7698		0.7083	0.7083			2,273.3030	0.6857		2,287.7029
<b>Total</b>	<b>1.6686</b>	<b>19.326</b>			<b>0.1563</b>	<b>0.7698</b>	<b>0.9262</b>	<b>0.0169</b>	<b>0.7083</b>	<b>0.7251</b>			<b>2,273.30</b>	<b>0.6857</b>		<b>2,287.70</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0285	0.0299			12.7763	5.1000e-004	12.7768	1.2849	4.7000e-004	1.2853			65.4424	3.2300e-003		65.5103
<b>Total</b>	<b>0.0285</b>	<b>0.0299</b>			<b>12.7763</b>	<b>5.10E-04</b>	<b>12.7768</b>	<b>1.2849</b>	<b>4.70E-04</b>	<b>1.2853</b>			<b>65.4424</b>	<b>3.23E-03</b>		<b>65.5103</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0598	0.0000	0.0598	6.4600e-003	0.0000	6.4600e-003			0.0000			0.0000
Off-Road	1.6686	19.3260				0.7698	0.7698		0.7083	0.7083			2,273.3030	0.6857		2,287.7029
<b>Total</b>	<b>1.6686</b>	<b>19.326</b>			<b>0.0598</b>	<b>0.7698</b>	<b>0.8296</b>	<b>6.46E-03</b>	<b>0.7083</b>	<b>0.7147</b>			<b>2,273.30</b>	<b>0.6857</b>		<b>2,287.70</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0285	0.0299			3.5554	5.1000e-004	3.5559	0.3631	4.7000e-004	0.3636			65.4424	3.2300e-003		65.5103
<b>Total</b>	<b>0.0285</b>	<b>0.0299</b>			<b>3.5554</b>	<b>5.10E-04</b>	<b>3.5559</b>	<b>0.3631</b>	<b>4.70E-04</b>	<b>0.3636</b>			<b>65.4424</b>	<b>3.23E-03</b>		<b>65.5103</b>

**3.11 Tree Trimming - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.9763	21.4638				0.8680	0.8680		0.7986	0.7986			2,436.3507	0.7274		2,451.6251
<b>Total</b>	<b>1.9763</b>	<b>21.4638</b>			<b>0.5303</b>	<b>0.868</b>	<b>1.3983</b>	<b>0.0573</b>	<b>0.7986</b>	<b>0.8558</b>			<b>2,436.35</b>	<b>0.7274</b>		<b>2,451.63</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0235	0.0250			9.5822	4.0000e-004	9.5826	0.9636	3.7000e-004	0.9640			50.8812	2.6500e-003		50.9369
<b>Total</b>	<b>0.0235</b>	<b>0.025</b>			<b>9.5822</b>	<b>4.00E-04</b>	<b>9.5826</b>	<b>0.9636</b>	<b>3.70E-04</b>	<b>0.964</b>			<b>50.8812</b>	<b>2.65E-03</b>		<b>50.9369</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	1.9763	21.4638				0.8680	0.8680		0.7986	0.7986			2,436.3507	0.7274		2,451.6251
<b>Total</b>	<b>1.9763</b>	<b>21.4638</b>			<b>0.2028</b>	<b>0.868</b>	<b>1.0708</b>	<b>0.0219</b>	<b>0.7986</b>	<b>0.8205</b>			<b>2,436.35</b>	<b>0.7274</b>		<b>2,451.63</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0235	0.0250			2.6666	4.0000e-004	2.6670	0.2723	3.7000e-004	0.2727			50.8812	2.6500e-003		50.9369

Total	0.0235	0.025			2.6666	4.00E-04	2.667	0.2723	3.70E-04	0.2727			50.8812	2.65E-03		50.9369
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### 3.12 R/W Clearing - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.3861	0.0000	2.3861	0.2577	0.0000	0.2577			0.0000				0.0000
Off-Road	3.2299	39.3104				1.5368	1.5368		1.4139	1.4139			4,237.9798	1.2652			4,264.5493
<b>Total</b>	<b>3.2299</b>	<b>39.3104</b>			<b>2.3861</b>	<b>1.5368</b>	<b>3.9229</b>	<b>0.2577</b>	<b>1.4139</b>	<b>1.6715</b>			<b>4,237.98</b>	<b>1.2652</b>			<b>4,264.55</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0392	0.0417			15.9703	6.7000e-004	15.9710	1.6061	6.1000e-004	1.6067			84.8020	4.4200e-003		84.8948
<b>Total</b>	<b>0.0392</b>	<b>0.0417</b>			<b>15.9703</b>	<b>6.70E-04</b>	<b>15.971</b>	<b>1.6061</b>	<b>6.10E-04</b>	<b>1.6067</b>			<b>84.802</b>	<b>4.42E-03</b>		<b>84.8948</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9127	0.0000	0.9127	0.0986	0.0000	0.0986			0.0000			0.0000
Off-Road	3.2299	39.3104				1.5368	1.5368		1.4139	1.4139			4,237.9798	1.2652		4,264.5493
<b>Total</b>	<b>3.2299</b>	<b>39.3104</b>			<b>0.9127</b>	<b>1.5368</b>	<b>2.4495</b>	<b>0.0986</b>	<b>1.4139</b>	<b>1.5124</b>			<b>4,237.98</b>	<b>1.2652</b>		<b>4,264.55</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0392	0.0417			4.4443	6.7000e-004	4.4450	0.4539	6.1000e-004	0.4545			84.8020	4.4200e-003		84.8948
<b>Total</b>	<b>0.0392</b>	<b>0.0417</b>			<b>4.4443</b>	<b>6.70E-04</b>	<b>4.445</b>	<b>0.4539</b>	<b>6.10E-04</b>	<b>0.4545</b>			<b>84.802</b>	<b>4.42E-03</b>		<b>84.8948</b>

### 3.13 Retaining Wall Structures - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	12.1797	142.0660				5.7611	5.7611		5.3002	5.3002			16,021.6064	4.7831		16,122.0519



<b>Total</b>	<b>12.1797</b>	<b>142.066</b>			<b>0</b>	<b>5.7611</b>	<b>5.7611</b>	<b>0</b>	<b>5.3002</b>	<b>5.3002</b>			<b>16,021.61</b>	<b>4.7831</b>		<b>16,122.05</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.1328	2.5976			132.6800	0.0681	132.7481	13.2841	0.0626	13.3467			642.5735	3.8900e-003		642.6552
Worker	0.2352	0.2500			95.8219	4.0000e-003	95.8259	9.6364	3.6600e-003	9.6401			508.8119	0.0265		509.3685
<b>Total</b>	<b>0.368</b>	<b>2.8476</b>			<b>228.5019</b>	<b>0.0721</b>	<b>228.574</b>	<b>22.9205</b>	<b>0.0663</b>	<b>22.9868</b>			<b>1,151.39</b>	<b>0.0304</b>		<b>1,152.02</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	12.1797	142.0660				5.7611	5.7611		5.3002	5.3002			16,021.6064	4.7831		16,122.0519
<b>Total</b>	<b>12.1797</b>	<b>142.066</b>			<b>0</b>	<b>5.7611</b>	<b>5.7611</b>	<b>0</b>	<b>5.3002</b>	<b>5.3002</b>			<b>16,021.61</b>	<b>4.7831</b>		<b>16,122.05</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.1328	2.5976			36.6931	0.0681	36.7612	3.6982	0.0626	3.7608			642.5735	3.8900e-003		642.6552
Worker	0.2352	0.2500			26.6657	4.0000e-003	26.6697	2.7234	3.6600e-003	2.7270			508.8119	0.0265		509.3685
<b>Total</b>	<b>0.368</b>	<b>2.8476</b>			<b>63.3588</b>	<b>0.0721</b>	<b>63.4309</b>	<b>6.4216</b>	<b>0.0663</b>	<b>6.4879</b>			<b>1,151.39</b>	<b>0.0304</b>		<b>1,152.02</b>

**3.13 Retaining Wall Structures - 2016**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	11.1535	127.3806				5.1167	5.1167		4.7073	4.7073			15,836.2883	4.7768		15,936.6008
<b>Total</b>	<b>11.1535</b>	<b>127.3806</b>			<b>0</b>	<b>5.1167</b>	<b>5.1167</b>	<b>0</b>	<b>4.7073</b>	<b>4.7073</b>			<b>15,836.29</b>	<b>4.7768</b>		<b>15,936.60</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.1168	2.2439			132.6803	0.0602	132.7405	13.2842	0.0554	13.3395			636.6474	3.4400e-003		636.7197
Worker	0.2134	0.2245			95.8219	3.8100e-003	95.8258	9.6364	3.5000e-003	9.6399			490.8178	0.0242		491.3269
<b>Total</b>	<b>0.3302</b>	<b>2.4684</b>			<b>228.5022</b>	<b>0.064</b>	<b>228.5662</b>	<b>22.9206</b>	<b>0.0589</b>	<b>22.9795</b>			<b>1,127.47</b>	<b>0.0277</b>		<b>1,128.05</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	11.1535	127.3806				5.1167	5.1167		4.7073	4.7073			15,836.2883	4.7768		15,936.6008
<b>Total</b>	<b>11.1535</b>	<b>127.3806</b>			<b>0</b>	<b>5.1167</b>	<b>5.1167</b>	<b>0</b>	<b>4.7073</b>	<b>4.7073</b>			<b>15,836.29</b>	<b>4.7768</b>		<b>15,936.60</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.1168	2.2439			36.6934	0.0602	36.7536	3.6983	0.0554	3.7537			636.6474	3.4400e-003		636.7197
Worker	0.2134	0.2245			26.6657	3.8100e-003	26.6695	2.7234	3.5000e-003	2.7269			490.8178	0.0242		491.3269
<b>Total</b>	<b>0.3302</b>	<b>2.4684</b>			<b>63.3591</b>	<b>0.064</b>	<b>63.4231</b>	<b>6.4217</b>	<b>0.0589</b>	<b>6.4805</b>			<b>1,127.47</b>	<b>0.0277</b>		<b>1,128.05</b>

### 3.14 Carpinteria Civil - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9080	22.1540				1.0645	1.0645		0.9793	0.9793			2,448.9913	0.7311		2,464.3449
<b>Total</b>	<b>1.908</b>	<b>22.154</b>				<b>1.0645</b>	<b>1.0645</b>		<b>0.9793</b>	<b>0.9793</b>			<b>2,448.99</b>	<b>0.7311</b>		<b>2,464.34</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0784	0.0833			31.9407	1.3300e-003	31.9420	3.2121	1.2200e-003	3.2134			169.6040	8.8400e-003		169.7895
<b>Total</b>	<b>0.0784</b>	<b>0.0833</b>			<b>31.9407</b>	<b>1.33E-03</b>	<b>31.942</b>	<b>3.2121</b>	<b>1.22E-03</b>	<b>3.2134</b>			<b>169.604</b>	<b>8.84E-03</b>		<b>169.7895</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	1.9080	22.1540				1.0645	1.0645		0.9793	0.9793			2,448.9913	0.7311		2,464.3449
<b>Total</b>	<b>1.908</b>	<b>22.154</b>				<b>1.0645</b>	<b>1.0645</b>		<b>0.9793</b>	<b>0.9793</b>			<b>2,448.99</b>	<b>0.7311</b>		<b>2,464.34</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0784	0.0833			8.8886	1.3300e-003	8.8899	0.9078	1.2200e-003	0.9090			169.6040	8.8400e-003		169.7895
<b>Total</b>	<b>0.0784</b>	<b>0.0833</b>			<b>8.8886</b>	<b>1.33E-03</b>	<b>8.8899</b>	<b>0.9078</b>	<b>1.22E-03</b>	<b>0.909</b>			<b>169.604</b>	<b>8.84E-03</b>		<b>169.7895</b>

**3.15 Santa Clara Civil - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.0164				0.4868	0.4868		0.4478	0.4478			861.6203	0.2572		867.0222
<b>Total</b>	<b>0.8588</b>	<b>9.0164</b>				<b>0.4868</b>	<b>0.4868</b>		<b>0.4478</b>	<b>0.4478</b>			<b>861.6203</b>	<b>0.2572</b>		<b>867.0222</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0314	0.0333			12.7763	5.3000e-004	12.7768	1.2849	4.9000e-004	1.2853			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.0314</b>	<b>0.0333</b>			<b>12.7763</b>	<b>5.30E-04</b>	<b>12.7768</b>	<b>1.2849</b>	<b>4.90E-04</b>	<b>1.2853</b>			<b>67.8416</b>	<b>3.53E-03</b>		<b>67.9158</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8588	9.0164				0.4868	0.4868		0.4478	0.4478			861.6203	0.2572		867.0222
<b>Total</b>	<b>0.8588</b>	<b>9.0164</b>				<b>0.4868</b>	<b>0.4868</b>		<b>0.4478</b>	<b>0.4478</b>			<b>861.6203</b>	<b>0.2572</b>		<b>867.0222</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0314	0.0333			3.5554	5.3000e-004	3.5560	0.3631	4.9000e-004	0.3636			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.0314</b>	<b>0.0333</b>			<b>3.5554</b>	<b>5.30E-04</b>	<b>3.556</b>	<b>0.3631</b>	<b>4.90E-04</b>	<b>0.3636</b>			<b>67.8416</b>	<b>3.53E-03</b>		<b>67.9158</b>

**3.16 Roads and Landing Work - 2015**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.9827	0.0000	2.9827	0.3221	0.0000	0.3221			0.0000				0.0000
Off-Road	4.9773	55.4311				2.4554	2.4554		2.2590	2.2590			5,768.9863	1.7223			5,805.1543
<b>Total</b>	<b>4.9773</b>	<b>55.4311</b>			<b>2.9827</b>	<b>2.4554</b>	<b>5.438</b>	<b>0.3221</b>	<b>2.259</b>	<b>2.581</b>			<b>5,768.99</b>	<b>1.7223</b>			<b>5,805.15</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0338	0.6856			35.3813	0.0181	35.3994	3.5424	0.0167	3.5591			170.7677	1.0300e-003		170.7894
Worker	0.0392	0.0417			15.9703	6.7000e-004	15.9710	1.6061	6.1000e-004	1.6067			84.8020	4.4200e-003		84.8948

<b>Total</b>	<b>0.073</b>	<b>0.7273</b>			<b>51.3516</b>	<b>0.0188</b>	<b>51.3704</b>	<b>5.1485</b>	<b>0.0173</b>	<b>5.1658</b>			<b>255.5697</b>	<b>5.45E-03</b>		<b>255.6842</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.1409	0.0000	1.1409	0.1232	0.0000	0.1232			0.0000				0.0000
Off-Road	4.9773	55.4311				2.4554	2.4554		2.2590	2.2590			5,768.9863	1.7223			5,805.1543
<b>Total</b>	<b>4.9773</b>	<b>55.4311</b>			<b>1.1409</b>	<b>2.4554</b>	<b>3.5963</b>	<b>0.1232</b>	<b>2.259</b>	<b>2.3821</b>			<b>5,768.99</b>	<b>1.7223</b>			<b>5,805.15</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Vendor	0.0338	0.6856			9.7848	0.0181	9.8029	0.9862	0.0167	1.0029			170.7677	1.0300e-003			170.7894
Worker	0.0392	0.0417			4.4443	6.7000e-004	4.4450	0.4539	6.1000e-004	0.4545			84.8020	4.4200e-003			84.8948
<b>Total</b>	<b>0.073</b>	<b>0.7273</b>			<b>14.2291</b>	<b>0.0188</b>	<b>14.2479</b>	<b>1.4401</b>	<b>0.0173</b>	<b>1.4574</b>			<b>255.5697</b>	<b>5.45E-03</b>			<b>255.6842</b>

**3.17 Guard Structure Installation - 2015**

**Unmitigated Construction On-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2441	38.2530				1.5470	1.5470		1.4323	1.4323			4,145.1271	1.2132		4,170.6043
<b>Total</b>	<b>3.2441</b>	<b>38.253</b>				<b>1.547</b>	<b>1.547</b>		<b>1.4323</b>	<b>1.4323</b>			<b>4,145.13</b>	<b>1.2132</b>		<b>4,170.60</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			35.3814	0.0182	35.3996	3.5424	0.0168	3.5592			172.5233	1.0500e-003		172.5454
Worker	0.0470	0.0500			19.1644	8.0000e-004	19.1652	1.9273	7.3000e-004	1.9280			101.7624	5.3000e-003		101.8737
<b>Total</b>	<b>0.0857</b>	<b>0.7569</b>			<b>54.5457</b>	<b>0.019</b>	<b>54.5648</b>	<b>5.4697</b>	<b>0.0175</b>	<b>5.4872</b>			<b>274.2857</b>	<b>6.35E-03</b>		<b>274.4191</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2441	38.2530				1.5470	1.5470		1.4323	1.4323			4,145.1271	1.2132		4,170.6043
<b>Total</b>	<b>3.2441</b>	<b>38.253</b>				<b>1.547</b>	<b>1.547</b>		<b>1.4323</b>	<b>1.4323</b>			<b>4,145.13</b>	<b>1.2132</b>		<b>4,170.60</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			9.7849	0.0182	9.8031	0.9862	0.0168	1.0030			172.5233	1.0500e-003		172.5454
Worker	0.0470	0.0500			5.3331	8.0000e-004	5.3339	0.5447	7.3000e-004	0.5454			101.7624	5.3000e-003		101.8737
<b>Total</b>	<b>0.0857</b>	<b>0.7569</b>			<b>15.118</b>	<b>0.019</b>	<b>15.137</b>	<b>1.5309</b>	<b>0.0175</b>	<b>1.5484</b>			<b>274.2857</b>	<b>6.35E-03</b>		<b>274.4191</b>

**3.18 Carpinteria Electrical - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.6506	19.4933				0.8921	0.8921		0.8207	0.8207			1,688.3186	0.5040		1,698.9033
<b>Total</b>	<b>1.6506</b>	<b>19.4933</b>			<b>0</b>	<b>0.8921</b>	<b>0.8921</b>	<b>0</b>	<b>0.8207</b>	<b>0.8207</b>			<b>1,688.32</b>	<b>0.504</b>		<b>1,698.90</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0862	0.0917			35.1347	1.4700e-003	35.1362	3.5334	1.3400e-003	3.5347			186.5644	9.7200e-003		186.7685
<b>Total</b>	<b>0.0862</b>	<b>0.0917</b>			<b>35.1347</b>	<b>1.47E-03</b>	<b>35.1362</b>	<b>3.5334</b>	<b>1.34E-03</b>	<b>3.5347</b>			<b>186.5644</b>	<b>9.72E-03</b>		<b>186.7685</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.6506	19.4933				0.8921	0.8921		0.8207	0.8207			1,688.3186	0.5040		1,698.9033
<b>Total</b>	<b>1.6506</b>	<b>19.4933</b>			<b>0</b>	<b>0.8921</b>	<b>0.8921</b>	<b>0</b>	<b>0.8207</b>	<b>0.8207</b>			<b>1,688.32</b>	<b>0.504</b>		<b>1,698.90</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000

Worker	0.0862	0.0917			9.7774	1.4700e-003	9.7789	0.9986	1.3400e-003	0.9999			186.5644	9.7200e-003		186.7685
<b>Total</b>	<b>0.0862</b>	<b>0.0917</b>			<b>9.7774</b>	<b>1.47E-03</b>	<b>9.7789</b>	<b>0.9986</b>	<b>1.34E-03</b>	<b>0.9999</b>			<b>186.5644</b>	<b>9.72E-03</b>		<b>186.7685</b>

### 3.19 Santa Clara Electrical - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0398	12.3573				0.5701	0.5701		0.5245	0.5245			1,161.6702	0.3468		1,168.9531
<b>Total</b>	<b>1.0398</b>	<b>12.3573</b>			<b>0</b>	<b>0.5701</b>	<b>0.5701</b>	<b>0</b>	<b>0.5245</b>	<b>0.5245</b>			<b>1,161.67</b>	<b>0.3468</b>		<b>1,168.95</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0549	0.0583			22.3585	9.3000e-004	22.3594	2.2485	8.5000e-004	2.2494			118.7228	6.1900e-003		118.8527
<b>Total</b>	<b>0.0549</b>	<b>0.0583</b>			<b>22.3585</b>	<b>9.30E-04</b>	<b>22.3594</b>	<b>2.2485</b>	<b>8.50E-04</b>	<b>2.2494</b>			<b>118.7228</b>	<b>6.19E-03</b>		<b>118.8527</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Off-Road	1.0398	12.3573				0.5701	0.5701		0.5245	0.5245			1,161.6702	0.3468			1,168.9531
<b>Total</b>	<b>1.0398</b>	<b>12.3573</b>			<b>0</b>	<b>0.5701</b>	<b>0.5701</b>	<b>0</b>	<b>0.5245</b>	<b>0.5245</b>			<b>1,161.67</b>	<b>0.3468</b>			<b>1,168.95</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Worker	0.0549	0.0583			6.2220	9.3000e-004	6.2229	0.6355	8.5000e-004	0.6363			118.7228	6.1900e-003			118.8527
<b>Total</b>	<b>0.0549</b>	<b>0.0583</b>			<b>6.222</b>	<b>9.30E-04</b>	<b>6.2229</b>	<b>0.6355</b>	<b>8.50E-04</b>	<b>0.6363</b>			<b>118.7228</b>	<b>6.19E-03</b>			<b>118.8527</b>

**3.20 Remove Existing Conductor - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	9.6361	115.2995				4.6295	4.6295		4.2592	4.2592			11,912.5346	3.5564		11,987.2188
<b>Total</b>	<b>9.6361</b>	<b>115.2995</b>				<b>4.6295</b>	<b>4.6295</b>		<b>4.2592</b>	<b>4.2592</b>			<b>11,912.53</b>	<b>3.5564</b>		<b>11,987.22</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			35.3814	0.0182	35.3996	3.5424	0.0168	3.5592			172.5233	1.0500e-003		172.5454
Worker	0.1568	0.1667			63.8813	2.6600e-003	63.8840	6.4243	2.4400e-003	6.4267			339.2079	0.0177		339.5790
<b>Total</b>	<b>0.1955</b>	<b>0.8736</b>			<b>99.2626</b>	<b>0.0209</b>	<b>99.2835</b>	<b>9.9667</b>	<b>0.0192</b>	<b>9.9859</b>			<b>511.7312</b>	<b>0.0187</b>		<b>512.1244</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	9.6361	115.2995				4.6295	4.6295		4.2592	4.2592			11,912.5346	3.5564		11,987.2188
<b>Total</b>	<b>9.6361</b>	<b>115.2995</b>				<b>4.6295</b>	<b>4.6295</b>		<b>4.2592</b>	<b>4.2592</b>			<b>11,912.53</b>	<b>3.5564</b>		<b>11,987.22</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			9.7849	0.0182	9.8031	0.9862	0.0168	1.0030			172.5233	1.0500e-003		172.5454
Worker	0.1568	0.1667			17.7771	2.6600e-003	17.7798	1.8156	2.4400e-003	1.8180			339.2079	0.0177		339.5790
<b>Total</b>	<b>0.1955</b>	<b>0.8736</b>			<b>27.562</b>	<b>0.0209</b>	<b>27.5829</b>	<b>2.8018</b>	<b>0.0192</b>	<b>2.821</b>			<b>511.7312</b>	<b>0.0187</b>		<b>512.1244</b>

**3.21 Install TSP foundation - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1567	26.0824				1.0720	1.0720		0.9862	0.9862			2,838.5257	0.8474		2,856.3214
<b>Total</b>	<b>2.1567</b>	<b>26.0824</b>				<b>1.072</b>	<b>1.072</b>		<b>0.9862</b>	<b>0.9862</b>			<b>2,838.53</b>	<b>0.8474</b>		<b>2,856.32</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0338	0.6856			35.3813	0.0181	35.3994	3.5424	0.0167	3.5591			170.7677	1.0300e-003		170.7894
Worker	0.0470	0.0500			19.1644	8.0000e-004	19.1652	1.9273	7.3000e-004	1.9280			101.7624	5.3000e-003		101.8737
<b>Total</b>	<b>0.0808</b>	<b>0.7356</b>			<b>54.5457</b>	<b>0.0189</b>	<b>54.5646</b>	<b>5.4697</b>	<b>0.0174</b>	<b>5.4871</b>			<b>272.5301</b>	<b>6.33E-03</b>		<b>272.6631</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1567	26.0824				1.0720	1.0720		0.9862	0.9862			2,838.5257	0.8474		2,856.3214
<b>Total</b>	<b>2.1567</b>	<b>26.0824</b>				<b>1.072</b>	<b>1.072</b>		<b>0.9862</b>	<b>0.9862</b>			<b>2,838.53</b>	<b>0.8474</b>		<b>2,856.32</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0338	0.6856			9.7848	0.0181	9.8029	0.9862	0.0167	1.0029			170.7677	1.0300e-003		170.7894
Worker	0.0470	0.0500			5.3331	8.0000e-004	5.3339	0.5447	7.3000e-004	0.5454			101.7624	5.3000e-003		101.8737
<b>Total</b>	<b>0.0808</b>	<b>0.7356</b>			<b>15.118</b>	<b>0.0189</b>	<b>15.1369</b>	<b>1.5309</b>	<b>0.0174</b>	<b>1.5483</b>			<b>272.5301</b>	<b>6.33E-03</b>		<b>272.6631</b>





Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	3.5931	40.9370				1.9205	1.9205		1.7669	1.7669			3,677.8177	1.0980		3,700.8753
<b>Total</b>	<b>3.5931</b>	<b>40.937</b>			<b>0.2028</b>	<b>1.9205</b>	<b>2.1233</b>	<b>0.0219</b>	<b>1.7669</b>	<b>1.7888</b>			<b>3,677.82</b>	<b>1.098</b>		<b>3,700.88</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0338	0.6856			9.7848	0.0181	9.8029	0.9862	0.0167	1.0029			170.7677	1.0300e-003		170.7894
Worker	0.0314	0.0333			3.5554	5.3000e-004	3.5560	0.3631	4.9000e-004	0.3636			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.0652</b>	<b>0.7189</b>			<b>13.3403</b>	<b>0.0187</b>	<b>13.3589</b>	<b>1.3493</b>	<b>0.0172</b>	<b>1.3665</b>			<b>238.6093</b>	<b>4.56E-03</b>		<b>238.7052</b>

**3.23 Casitas Civil - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9080	22.1540				1.0645	1.0645		0.9793	0.9793			2,448.9913	0.7311		2,464.3449
<b>Total</b>	<b>1.908</b>	<b>22.154</b>				<b>1.0645</b>	<b>1.0645</b>		<b>0.9793</b>	<b>0.9793</b>			<b>2,448.99</b>	<b>0.7311</b>		<b>2,464.34</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0706	0.0750			28.7466	1.2000e-003	28.7478	2.8909	1.1000e-003	2.8920			152.6436	7.9500e-003		152.8106
<b>Total</b>	<b>0.0706</b>	<b>0.075</b>			<b>28.7466</b>	<b>1.20E-03</b>	<b>28.7478</b>	<b>2.8909</b>	<b>1.10E-03</b>	<b>2.892</b>			<b>152.6436</b>	<b>7.95E-03</b>		<b>152.8106</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9080	22.1540				1.0645	1.0645		0.9793	0.9793			2,448.9913	0.7311		2,464.3449
<b>Total</b>	<b>1.908</b>	<b>22.154</b>				<b>1.0645</b>	<b>1.0645</b>		<b>0.9793</b>	<b>0.9793</b>			<b>2,448.99</b>	<b>0.7311</b>		<b>2,464.34</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0706	0.0750			7.9997	1.2000e-003	8.0009	0.8170	1.1000e-003	0.8181			152.6436	7.9500e-003		152.8106
<b>Total</b>	<b>0.0706</b>	<b>0.075</b>			<b>7.9997</b>	<b>1.20E-03</b>	<b>8.0009</b>	<b>0.817</b>	<b>1.10E-03</b>	<b>0.8181</b>			<b>152.6436</b>	<b>7.95E-03</b>		<b>152.8106</b>

**3.24 Install Conductor - 2015**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000				0.0000
Off-Road	14.1830	168.8231				6.6861	6.6861		6.1512	6.1512			18,001.5461	5.3742			18,114.4046
<b>Total</b>	<b>14.183</b>	<b>168.8231</b>			<b>0.5303</b>	<b>6.6861</b>	<b>7.2164</b>	<b>0.0573</b>	<b>6.1512</b>	<b>6.2085</b>			<b>18,001.55</b>	<b>5.3742</b>			<b>18,114.40</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0580	1.0604			53.0720	0.0273	53.0994	5.3136	0.0251	5.3388			258.7849	1.5800e-003		258.8180
Worker	0.1568	0.1667			63.8813	2.6600e-003	63.8840	6.4243	2.4400e-003	6.4267			339.2079	0.0177		339.5790

<b>Total</b>	<b>0.2148</b>	<b>1.2271</b>			<b>116.9533</b>	<b>0.03</b>	<b>116.9833</b>	<b>11.7379</b>	<b>0.0276</b>	<b>11.7655</b>			<b>597.9929</b>	<b>0.0193</b>		<b>598.3971</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	14.1830	168.8231				6.6861	6.6861		6.1512	6.1512			18,001.5461	5.3742		18,114.4046
<b>Total</b>	<b>14.183</b>	<b>168.8231</b>			<b>0.2028</b>	<b>6.6861</b>	<b>6.8889</b>	<b>0.0219</b>	<b>6.1512</b>	<b>6.1731</b>			<b>18,001.55</b>	<b>5.3742</b>		<b>18,114.40</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0580	1.0604			14.6773	0.0273	14.7046	1.4793	0.0251	1.5044			258.7849	1.5800e-003		258.8180
Worker	0.1568	0.1667			17.7771	2.6600e-003	17.7798	1.8156	2.4400e-003	1.8180			339.2079	0.0177		339.5790
<b>Total</b>	<b>0.2148</b>	<b>1.2271</b>			<b>32.4544</b>	<b>0.03</b>	<b>32.4844</b>	<b>3.2949</b>	<b>0.0276</b>	<b>3.3225</b>			<b>597.9929</b>	<b>0.0193</b>		<b>598.3971</b>

**3.25 TSP Assembly - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.9362	22.0441				0.9712	0.9712		0.9071	0.9071			2,168.7799	0.6110		2,181.6115
<b>Total</b>	<b>1.9362</b>	<b>22.0441</b>			<b>0.5303</b>	<b>0.9712</b>	<b>1.5015</b>	<b>0.0573</b>	<b>0.9071</b>	<b>0.9644</b>			<b>2,168.78</b>	<b>0.611</b>		<b>2,181.61</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0338	0.6856			35.3813	0.0181	35.3994	3.5424	0.0167	3.5591			170.7677	1.0300e-003		170.7894
Worker	0.0627	0.0667			25.5525	1.0700e-003	25.5536	2.5697	9.8000e-004	2.5707			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.0965</b>	<b>0.7523</b>			<b>60.9338</b>	<b>0.0192</b>	<b>60.953</b>	<b>6.1121</b>	<b>0.0177</b>	<b>6.1298</b>			<b>306.4509</b>	<b>8.10E-03</b>		<b>306.621</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	1.9362	22.0441				0.9712	0.9712		0.9071	0.9071			2,168.7799	0.6110		2,181.6115

<b>Total</b>	<b>1.9362</b>	<b>22.0441</b>			<b>0.2028</b>	<b>0.9712</b>	<b>1.174</b>	<b>0.0219</b>	<b>0.9071</b>	<b>0.929</b>			<b>2,168.78</b>	<b>0.611</b>		<b>2,181.61</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0338	0.6856			9.7848	0.0181	9.8029	0.9862	0.0167	1.0029			170.7677	1.0300e-003		170.7894
Worker	0.0627	0.0667			7.1109	1.0700e-003	7.1119	0.7262	9.8000e-004	0.7272			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.0965</b>	<b>0.7523</b>			<b>16.8957</b>	<b>0.0192</b>	<b>16.9149</b>	<b>1.7124</b>	<b>0.0177</b>	<b>1.7301</b>			<b>306.4509</b>	<b>8.10E-03</b>		<b>306.621</b>

**3.26 TSP Erection - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5552	0.0000	0.5552	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.8319	21.3850				0.9146	0.9146		0.8505	0.8505			2,096.6137	0.6016		2,109.2480
<b>Total</b>	<b>1.8319</b>	<b>21.385</b>			<b>0.5552</b>	<b>0.9146</b>	<b>1.4698</b>	<b>0.06</b>	<b>0.8505</b>	<b>0.9104</b>			<b>2,096.61</b>	<b>0.6016</b>		<b>2,109.25</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0773	1.4139			70.7627	0.0364	70.7991	7.0849	0.0335	7.1184			345.0466	2.1000e-003		345.0907
Worker	0.0627	0.0667			25.5525	1.0700e-003	25.5536	2.5697	9.8000e-004	2.5707			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.14</b>	<b>1.4805</b>			<b>96.3152</b>	<b>0.0375</b>	<b>96.3527</b>	<b>9.6546</b>	<b>0.0345</b>	<b>9.6891</b>			<b>480.7297</b>	<b>9.17E-03</b>		<b>480.9223</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2124	0.0000	0.2124	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	1.8319	21.3850				0.9146	0.9146		0.8505	0.8505			2,096.6137	0.6016		2,109.2480
<b>Total</b>	<b>1.8319</b>	<b>21.385</b>			<b>0.2124</b>	<b>0.9146</b>	<b>1.127</b>	<b>0.0229</b>	<b>0.8505</b>	<b>0.8734</b>			<b>2,096.61</b>	<b>0.6016</b>		<b>2,109.25</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					



Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0773	1.4139			19.5697	0.0364	19.6061	1.9724	0.0335	2.0059			345.0466	2.1000e-003		345.0907
Worker	0.0627	0.0667			7.1109	1.0700e-003	7.1119	0.7262	9.8000e-004	0.7272			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.14</b>	<b>1.4805</b>			<b>26.6806</b>	<b>0.0375</b>	<b>26.7181</b>	<b>2.6986</b>	<b>0.0345</b>	<b>2.7331</b>			<b>480.7297</b>	<b>9.17E-03</b>		<b>480.9223</b>

**3.27 Casitas Electrical - 2015**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0347	12.1841				0.5584	0.5584		0.5137	0.5137			1,196.8750	0.3573		1,204.3786
<b>Total</b>	<b>1.0347</b>	<b>12.1841</b>			<b>0</b>	<b>0.5584</b>	<b>0.5584</b>	<b>0</b>	<b>0.5137</b>	<b>0.5137</b>			<b>1,196.88</b>	<b>0.3573</b>		<b>1,204.38</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0627	0.0667			25.5525	1.0700e-003	25.5536	2.5697	9.8000e-004	2.5707			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.0627</b>	<b>0.0667</b>			<b>25.5525</b>	<b>1.07E-03</b>	<b>25.5536</b>	<b>2.5697</b>	<b>9.80E-04</b>	<b>2.5707</b>			<b>135.6832</b>	<b>7.07E-03</b>		<b>135.8316</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0347	12.1841				0.5584	0.5584		0.5137	0.5137			1,196.8750	0.3573		1,204.3786
<b>Total</b>	<b>1.0347</b>	<b>12.1841</b>			<b>0</b>	<b>0.5584</b>	<b>0.5584</b>	<b>0</b>	<b>0.5137</b>	<b>0.5137</b>			<b>1,196.88</b>	<b>0.3573</b>		<b>1,204.38</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0627	0.0667			7.1109	1.0700e-003	7.1119	0.7262	9.8000e-004	0.7272			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.0627</b>	<b>0.0667</b>			<b>7.1109</b>	<b>1.07E-03</b>	<b>7.1119</b>	<b>0.7262</b>	<b>9.80E-04</b>	<b>0.7272</b>			<b>135.6832</b>	<b>7.07E-03</b>		<b>135.8316</b>

**3.28 LST Removal - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					0.0698	0.0000	0.0698	7.5300e-003	0.0000	7.5300e-003			0.0000			0.0000
Off-Road	2.0998	23.2136				1.0855	1.0855		1.0168	1.0168			2,089.0872	0.5751		2,101.1641
<b>Total</b>	<b>2.0998</b>	<b>23.2136</b>			<b>0.0698</b>	<b>1.0855</b>	<b>1.1553</b>	<b>7.53E-03</b>	<b>1.0168</b>	<b>1.0243</b>			<b>2,089.09</b>	<b>0.5751</b>		<b>2,101.1641</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			35.3814	0.0182	35.3996	3.5424	0.0168	3.5592			172.5233	1.0500e-003		172.5454
Worker	0.0627	0.0667			25.5525	1.0700e-003	25.5536	2.5697	9.8000e-004	2.5707			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1014</b>	<b>0.7736</b>			<b>60.9339</b>	<b>0.0193</b>	<b>60.9532</b>	<b>6.1121</b>	<b>0.0177</b>	<b>6.1299</b>			<b>308.2065</b>	<b>8.12E-03</b>		<b>308.377</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0267	0.0000	0.0267	2.8800e-003	0.0000	2.8800e-003			0.0000			0.0000
Off-Road	2.0998	23.2136				1.0855	1.0855		1.0168	1.0168			2,089.0872	0.5751		2,101.1641
<b>Total</b>	<b>2.0998</b>	<b>23.2136</b>			<b>0.0267</b>	<b>1.0855</b>	<b>1.1122</b>	<b>2.88E-03</b>	<b>1.0168</b>	<b>1.0197</b>			<b>2,089.09</b>	<b>0.5751</b>		<b>2,101.16</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			9.7849	0.0182	9.8031	0.9862	0.0168	1.0030			172.5233	1.0500e-003		172.5454
Worker	0.0627	0.0667			7.1109	1.0700e-003	7.1119	0.7262	9.8000e-004	0.7272			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1014</b>	<b>0.7736</b>			<b>16.8957</b>	<b>0.0193</b>	<b>16.915</b>	<b>1.7124</b>	<b>0.0177</b>	<b>1.7302</b>			<b>308.2065</b>	<b>8.12E-03</b>		<b>308.377</b>

**3.28 LST Removal - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0698	0.0000	0.0698	7.5300e-003	0.0000	7.5300e-003			0.0000			0.0000
Off-Road	1.9573	21.5302				0.9957	0.9957		0.9321	0.9321			2,069.8445	0.5713		2,081.8418
<b>Total</b>	<b>1.9573</b>	<b>21.5302</b>			<b>0.0698</b>	<b>0.9957</b>	<b>1.0654</b>	<b>7.53E-03</b>	<b>0.9321</b>	<b>0.9397</b>			<b>2,069.84</b>	<b>0.5713</b>		<b>2,081.84</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0341	0.6117			35.3814	0.0161	35.3975	3.5425	0.0148	3.5573			170.9352	9.3000e-004		170.9547
Worker	0.0569	0.0599			25.5525	1.0200e-003	25.5535	2.5697	9.3000e-004	2.5706			130.8847	6.4700e-003		131.0205
<b>Total</b>	<b>0.091</b>	<b>0.6716</b>			<b>60.934</b>	<b>0.0171</b>	<b>60.9511</b>	<b>6.1122</b>	<b>0.0157</b>	<b>6.1279</b>			<b>301.8199</b>	<b>7.40E-03</b>		<b>301.9752</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0267	0.0000	0.0267	2.8800e-003	0.0000	2.8800e-003			0.0000				0.0000
Off-Road	1.9573	21.5302				0.9957	0.9957		0.9321	0.9321			2,069.8445	0.5713			2,081.8418
<b>Total</b>	<b>1.9573</b>	<b>21.5302</b>			<b>0.0267</b>	<b>0.9957</b>	<b>1.0223</b>	<b>2.88E-03</b>	<b>0.9321</b>	<b>0.935</b>			<b>2,069.84</b>	<b>0.5713</b>			<b>2,081.84</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0341	0.6117			9.7849	0.0161	9.8010	0.9862	0.0148	1.0010			170.9352	9.3000e-004		170.9547
Worker	0.0569	0.0599			7.1109	1.0200e-003	7.1119	0.7262	9.3000e-004	0.7272			130.8847	6.4700e-003		131.0205

<b>Total</b>	<b>0.091</b>	<b>0.6716</b>			<b>16.8958</b>	<b>0.0171</b>	<b>16.9129</b>	<b>1.7125</b>	<b>0.0157</b>	<b>1.7282</b>			<b>301.8199</b>	<b>7.40E-03</b>		<b>301.9752</b>
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### 3.29 LST Foundation Removal - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.5930	17.0645				0.7918	0.7918		0.7465	0.7465			1,936.3603	0.5295		1,947.4797
<b>Total</b>	<b>1.593</b>	<b>17.0645</b>			<b>0</b>	<b>0.7918</b>	<b>0.7918</b>	<b>0</b>	<b>0.7465</b>	<b>0.7465</b>			<b>1,936.36</b>	<b>0.5295</b>		<b>1,947.48</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0314	0.0333			12.7763	5.3000e-004	12.7768	1.2849	4.9000e-004	1.2853			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.0314</b>	<b>0.0333</b>			<b>12.7763</b>	<b>5.30E-04</b>	<b>12.7768</b>	<b>1.2849</b>	<b>4.90E-04</b>	<b>1.2853</b>			<b>67.8416</b>	<b>3.53E-03</b>		<b>67.9158</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.5930	17.0645				0.7918	0.7918		0.7465	0.7465			1,936.3603	0.5295		1,947.4797
<b>Total</b>	<b>1.593</b>	<b>17.0645</b>			<b>0</b>	<b>0.7918</b>	<b>0.7918</b>	<b>0</b>	<b>0.7465</b>	<b>0.7465</b>			<b>1,936.36</b>	<b>0.5295</b>		<b>1,947.48</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0314	0.0333			3.5554	5.3000e-004	3.5560	0.3631	4.9000e-004	0.3636			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.0314</b>	<b>0.0333</b>			<b>3.5554</b>	<b>5.30E-04</b>	<b>3.556</b>	<b>0.3631</b>	<b>4.90E-04</b>	<b>0.3636</b>			<b>67.8416</b>	<b>3.53E-03</b>		<b>67.9158</b>

### **3.30 Seg4 Remove Existing Conductor & GW - 2015**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	10.0607	118.9289				4.7842	4.7842		4.4015	4.4015			12,306.0762	3.6739		12,383.2277
<b>Total</b>	<b>10.0607</b>	<b>118.9289</b>				<b>4.7842</b>	<b>4.7842</b>		<b>4.4015</b>	<b>4.4015</b>			<b>12,306.08</b>	<b>3.6739</b>		<b>12,383.23</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.1568	0.1667			63.8813	2.6600e-003	63.8840	6.4243	2.4400e-003	6.4267			339.2079	0.0177		339.5790
<b>Total</b>	<b>0.1568</b>	<b>0.1667</b>			<b>63.8813</b>	<b>2.66E-03</b>	<b>63.884</b>	<b>6.4243</b>	<b>2.44E-03</b>	<b>6.4267</b>			<b>339.2079</b>	<b>0.0177</b>		<b>339.579</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	10.0607	118.9289				4.7842	4.7842		4.4015	4.4015			12,306.0762	3.6739		12,383.2277
<b>Total</b>	<b>10.0607</b>	<b>118.9289</b>				<b>4.7842</b>	<b>4.7842</b>		<b>4.4015</b>	<b>4.4015</b>			<b>12,306.08</b>	<b>3.6739</b>		<b>12,383.23</b>

**Mitigated Construction Off-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.1568	0.1667			17.7771	2.6600e-003	17.7798	1.8156	2.4400e-003	1.8180			339.2079	0.0177		339.5790
<b>Total</b>	<b>0.1568</b>	<b>0.1667</b>			<b>17.7771</b>	<b>2.66E-03</b>	<b>17.7798</b>	<b>1.8156</b>	<b>2.44E-03</b>	<b>1.818</b>			<b>339.2079</b>	<b>0.0177</b>		<b>339.579</b>

### 3.31 Site 132 Brushing, Roads & Landing Work - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.8376	17.9927				0.7950	0.7950		0.7314	0.7314			2,027.2630	0.6052		2,039.9727
<b>Total</b>	<b>1.8376</b>	<b>17.9927</b>			<b>0.5303</b>	<b>0.795</b>	<b>1.3252</b>	<b>0.0573</b>	<b>0.7314</b>	<b>0.7886</b>			<b>2,027.26</b>	<b>0.6052</b>		<b>2,039.97</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0266	0.5195			26.5360	0.0136	26.5496	2.6568	0.0125	2.6693			128.5147	7.8000e-004		128.5311

Worker	0.0392	0.0417			15.9703	6.7000e-004	15.9710	1.6061	6.1000e-004	1.6067			84.8020	4.4200e-003		84.8948
<b>Total</b>	<b>0.0658</b>	<b>0.5612</b>			<b>42.5063</b>	<b>0.0143</b>	<b>42.5206</b>	<b>4.2629</b>	<b>0.0131</b>	<b>4.276</b>			<b>213.3167</b>	<b>5.20E-03</b>		<b>213.4258</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000				0.0000
Off-Road	1.8376	17.9927				0.7950	0.7950		0.7314	0.7314			2,027.2630	0.6052			2,039.9727
<b>Total</b>	<b>1.8376</b>	<b>17.9927</b>			<b>0.2028</b>	<b>0.795</b>	<b>0.9978</b>	<b>0.0219</b>	<b>0.7314</b>	<b>0.7533</b>			<b>2,027.26</b>	<b>0.6052</b>			<b>2,039.97</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0266	0.5195			7.3386	0.0136	7.3522	0.7396	0.0125	0.7522			128.5147	7.8000e-004		128.5311
Worker	0.0392	0.0417			4.4443	6.7000e-004	4.4450	0.4539	6.1000e-004	0.4545			84.8020	4.4200e-003		84.8948
<b>Total</b>	<b>0.0658</b>	<b>0.5612</b>			<b>11.7829</b>	<b>0.0143</b>	<b>11.7972</b>	<b>1.1935</b>	<b>0.0131</b>	<b>1.2067</b>			<b>213.3167</b>	<b>5.20E-03</b>		<b>213.4258</b>

**3.32 Site 128 Brushing, Roads & Landing Work - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Off-Road	4.5715	48.3990				2.2041	2.2041		2.0278	2.0278			5,241.0954	1.5647			5,273.9538
<b>Total</b>	<b>4.5715</b>	<b>48.399</b>			<b>0</b>	<b>2.2041</b>	<b>2.2041</b>	<b>0</b>	<b>2.0278</b>	<b>2.0278</b>			<b>5,241.10</b>	<b>1.5647</b>			<b>5,273.95</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Vendor	0.0266	0.5195			26.5360	0.0136	26.5496	2.6568	0.0125	2.6693			128.5147	7.8000e-004			128.5311
Worker	0.0392	0.0417			15.9703	6.7000e-004	15.9710	1.6061	6.1000e-004	1.6067			84.8020	4.4200e-003			84.8948
<b>Total</b>	<b>0.0658</b>	<b>0.5612</b>			<b>42.5063</b>	<b>0.0143</b>	<b>42.5206</b>	<b>4.2629</b>	<b>0.0131</b>	<b>4.276</b>			<b>213.3167</b>	<b>5.20E-03</b>			<b>213.4258</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.5715	48.3990				2.2041	2.2041		2.0278	2.0278			5,241.0954	1.5647		5,273.9538
<b>Total</b>	<b>4.5715</b>	<b>48.399</b>			<b>0</b>	<b>2.2041</b>	<b>2.2041</b>	<b>0</b>	<b>2.0278</b>	<b>2.0278</b>			<b>5,241.10</b>	<b>1.5647</b>		<b>5,273.95</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0266	0.5195			7.3386	0.0136	7.3522	0.7396	0.0125	0.7522			128.5147	7.8000e-004		128.5311
Worker	0.0392	0.0417			4.4443	6.7000e-004	4.4450	0.4539	6.1000e-004	0.4545			84.8020	4.4200e-003		84.8948
<b>Total</b>	<b>0.0658</b>	<b>0.5612</b>			<b>11.7829</b>	<b>0.0143</b>	<b>11.7972</b>	<b>1.1935</b>	<b>0.0131</b>	<b>1.2067</b>			<b>213.3167</b>	<b>5.20E-03</b>		<b>213.4258</b>

**3.33 Site 99 Install J-Tower Foundations - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.1792	50.4624				1.9076	1.9076		1.7550	1.7550			5,492.6226	1.6398		5,527.0579
<b>Total</b>	<b>4.1792</b>	<b>50.4624</b>			<b>0</b>	<b>1.9076</b>	<b>1.9076</b>	<b>0</b>	<b>1.755</b>	<b>1.755</b>			<b>5,492.62</b>	<b>1.6398</b>		<b>5,527.06</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			53.0720	0.0272	53.0992	5.3136	0.0251	5.3387			257.0294	1.5600e-003		257.0621
Worker	0.0627	0.0667			25.5525	1.0700e-003	25.5536	2.5697	9.8000e-004	2.5707			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1158</b>	<b>1.1057</b>			<b>78.6245</b>	<b>0.0283</b>	<b>78.6528</b>	<b>7.8833</b>	<b>0.026</b>	<b>7.9094</b>			<b>392.7126</b>	<b>8.63E-03</b>		<b>392.8937</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.1792	50.4624				1.9076	1.9076		1.7550	1.7550			5,492.6226	1.6398		5,527.0579
<b>Total</b>	<b>4.1792</b>	<b>50.4624</b>			<b>0</b>	<b>1.9076</b>	<b>1.9076</b>	<b>0</b>	<b>1.755</b>	<b>1.755</b>			<b>5,492.62</b>	<b>1.6398</b>		<b>5,527.06</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			14.6773	0.0272	14.7045	1.4793	0.0251	1.5043			257.0294	1.5600e-003		257.0621
Worker	0.0627	0.0667			7.1109	1.0700e-003	7.1119	0.7262	9.8000e-004	0.7272			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1158</b>	<b>1.1057</b>			<b>21.7881</b>	<b>0.0283</b>	<b>21.8164</b>	<b>2.2055</b>	<b>0.026</b>	<b>2.2315</b>			<b>392.7126</b>	<b>8.63E-03</b>		<b>392.8937</b>

### 3.34 Site 97 Install J-Tower Footings - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	3.3184	36.8359				1.6041	1.6041		1.4894	1.4894			4,092.3355	1.1853		4,117.2266
<b>Total</b>	<b>3.3184</b>	<b>36.8359</b>			<b>0.5303</b>	<b>1.6041</b>	<b>2.1344</b>	<b>0.0573</b>	<b>1.4894</b>	<b>1.5466</b>			<b>4,092.34</b>	<b>1.1853</b>		<b>4,117.23</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			53.0720	0.0272	53.0992	5.3136	0.0251	5.3387			257.0294	1.5600e-003		257.0621
Worker	0.0627	0.0667			25.5525	1.0700e-003	25.5536	2.5697	9.8000e-004	2.5707			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1158</b>	<b>1.1057</b>			<b>78.6245</b>	<b>0.0283</b>	<b>78.6528</b>	<b>7.8833</b>	<b>0.026</b>	<b>7.9094</b>			<b>392.7126</b>	<b>8.63E-03</b>		<b>392.8937</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	3.3184	36.8359				1.6041	1.6041		1.4894	1.4894			4,092.3355	1.1853		4,117.2266
<b>Total</b>	<b>3.3184</b>	<b>36.8359</b>			<b>0.2028</b>	<b>1.6041</b>	<b>1.8069</b>	<b>0.0219</b>	<b>1.4894</b>	<b>1.5113</b>			<b>4,092.34</b>	<b>1.1853</b>		<b>4,117.23</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			14.6773	0.0272	14.7045	1.4793	0.0251	1.5043			257.0294	1.5600e-003		257.0621
Worker	0.0627	0.0667			7.1109	1.0700e-003	7.1119	0.7262	9.8000e-004	0.7272			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1158</b>	<b>1.1057</b>			<b>21.7881</b>	<b>0.0283</b>	<b>21.8164</b>	<b>2.2055</b>	<b>0.026</b>	<b>2.2315</b>			<b>392.7126</b>	<b>8.63E-03</b>		<b>392.8937</b>

**3.35 Site 132 LST Removal - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	2.1563	23.1201				1.0090	1.0090		0.9464	0.9464			2,622.2746	0.7343		2,637.6942
<b>Total</b>	<b>2.1563</b>	<b>23.1201</b>			<b>0.5303</b>	<b>1.009</b>	<b>1.5392</b>	<b>0.0573</b>	<b>0.9464</b>	<b>1.0036</b>			<b>2,622.27</b>	<b>0.7343</b>		<b>2,637.69</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			35.3814	0.0182	35.3996	3.5424	0.0168	3.5592			172.5233	1.0500e-003		172.5454
Worker	0.0627	0.0667			25.5525	1.0700e-003	25.5536	2.5697	9.8000e-004	2.5707			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1014</b>	<b>0.7736</b>			<b>60.9339</b>	<b>0.0193</b>	<b>60.9532</b>	<b>6.1121</b>	<b>0.0177</b>	<b>6.1299</b>			<b>308.2065</b>	<b>8.12E-03</b>		<b>308.377</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	2.1563	23.1201				1.0090	1.0090		0.9464	0.9464			2,622.2746	0.7343		2,637.6942
<b>Total</b>	<b>2.1563</b>	<b>23.1201</b>			<b>0.2028</b>	<b>1.009</b>	<b>1.2118</b>	<b>0.0219</b>	<b>0.9464</b>	<b>0.9683</b>			<b>2,622.27</b>	<b>0.7343</b>		<b>2,637.69</b>



**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			9.7849	0.0182	9.8031	0.9862	0.0168	1.0030			172.5233	1.0500e-003		172.5454
Worker	0.0627	0.0667			7.1109	1.0700e-003	7.1119	0.7262	9.8000e-004	0.7272			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1014</b>	<b>0.7736</b>			<b>16.8957</b>	<b>0.0193</b>	<b>16.915</b>	<b>1.7124</b>	<b>0.0177</b>	<b>1.7302</b>			<b>308.2065</b>	<b>8.12E-03</b>		<b>308.377</b>

**3.36 Site 99 J-Tower Assembly & Erection - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	3.2442	35.7290				1.5293	1.5293		1.4251	1.4251			3,986.4009	1.1415		4,010.3727
<b>Total</b>	<b>3.2442</b>	<b>35.729</b>			<b>0.5303</b>	<b>1.5293</b>	<b>2.0596</b>	<b>0.0573</b>	<b>1.4251</b>	<b>1.4824</b>			<b>3,986.40</b>	<b>1.1415</b>		<b>4,010.37</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			53.0720	0.0272	53.0992	5.3136	0.0251	5.3387			257.0294	1.5600e-003		257.0621
Worker	0.0941	0.1000			38.3288	1.6000e-003	38.3304	3.8546	1.4700e-003	3.8560			203.5248	0.0106		203.7474
<b>Total</b>	<b>0.1472</b>	<b>1.1391</b>			<b>91.4008</b>	<b>0.0288</b>	<b>91.4296</b>	<b>9.1682</b>	<b>0.0265</b>	<b>9.1947</b>			<b>460.5541</b>	<b>0.0122</b>		<b>460.8095</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	3.2442	35.7290				1.5293	1.5293		1.4251	1.4251			3,986.4009	1.1415		4,010.3727
<b>Total</b>	<b>3.2442</b>	<b>35.729</b>			<b>0.2028</b>	<b>1.5293</b>	<b>1.7322</b>	<b>0.0219</b>	<b>1.4251</b>	<b>1.447</b>			<b>3,986.40</b>	<b>1.1415</b>		<b>4,010.37</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			14.6773	0.0272	14.7045	1.4793	0.0251	1.5043			257.0294	1.5600e-003		257.0621
Worker	0.0941	0.1000			10.6663	1.6000e-003	10.6679	1.0894	1.4700e-003	1.0908			203.5248	0.0106		203.7474

<b>Total</b>	<b>0.1472</b>	<b>1.1391</b>			<b>25.3435</b>	<b>0.0288</b>	<b>25.3724</b>	<b>2.5686</b>	<b>0.0265</b>	<b>2.5951</b>			<b>460.5541</b>	<b>0.0122</b>		<b>460.8095</b>
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### 3.37 Site 97 J-Tower Assembly & Erection - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000				0.0000
Off-Road	3.2442	35.7290				1.5293	1.5293		1.4251	1.4251			3,986.4009	1.1415			4,010.3727
<b>Total</b>	<b>3.2442</b>	<b>35.729</b>			<b>0.5303</b>	<b>1.5293</b>	<b>2.0596</b>	<b>0.0573</b>	<b>1.4251</b>	<b>1.4824</b>			<b>3,986.40</b>	<b>1.1415</b>			<b>4,010.37</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Vendor	0.0531	1.0391			53.0720	0.0272	53.0992	5.3136	0.0251	5.3387			257.0294	1.5600e-003			257.0621
Worker	0.0941	0.1000			38.3288	1.6000e-003	38.3304	3.8546	1.4700e-003	3.8560			203.5248	0.0106			203.7474
<b>Total</b>	<b>0.1472</b>	<b>1.1391</b>			<b>91.4008</b>	<b>0.0288</b>	<b>91.4296</b>	<b>9.1682</b>	<b>0.0265</b>	<b>9.1947</b>			<b>460.5541</b>	<b>0.0122</b>			<b>460.8095</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	3.2442	35.7290				1.5293	1.5293		1.4251	1.4251			3,986.4009	1.1415		4,010.3727
<b>Total</b>	<b>3.2442</b>	<b>35.729</b>			<b>0.2028</b>	<b>1.5293</b>	<b>1.7322</b>	<b>0.0219</b>	<b>1.4251</b>	<b>1.447</b>			<b>3,986.40</b>	<b>1.1415</b>		<b>4,010.37</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			14.6773	0.0272	14.7045	1.4793	0.0251	1.5043			257.0294	1.5600e-003		257.0621
Worker	0.0941	0.1000			10.6663	1.6000e-003	10.6679	1.0894	1.4700e-003	1.0908			203.5248	0.0106		203.7474
<b>Total</b>	<b>0.1472</b>	<b>1.1391</b>			<b>25.3435</b>	<b>0.0288</b>	<b>25.3724</b>	<b>2.5686</b>	<b>0.0265</b>	<b>2.5951</b>			<b>460.5541</b>	<b>0.0122</b>		<b>460.8095</b>

### **3.38 Site 132 Install J-Tower Footings - 2015**

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	6.3607	76.3222				2.8634	2.8634		2.6343	2.6343			8,450.2296	2.5228		8,503.2072

<b>Total</b>	<b>6.3607</b>	<b>76.3222</b>			<b>0.5303</b>	<b>2.8634</b>	<b>3.3937</b>	<b>0.0573</b>	<b>2.6343</b>	<b>2.6916</b>			<b>8,450.23</b>	<b>2.5228</b>		<b>8,503.21</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			53.0720	0.0272	53.0992	5.3136	0.0251	5.3387			257.0294	1.5600e-003		257.0621
Worker	0.0470	0.0500			19.1644	8.0000e-004	19.1652	1.9273	7.3000e-004	1.9280			101.7624	5.3000e-003		101.8737
<b>Total</b>	<b>0.1002</b>	<b>1.0891</b>			<b>72.2364</b>	<b>0.028</b>	<b>72.2644</b>	<b>7.2409</b>	<b>0.0258</b>	<b>7.2667</b>			<b>358.7918</b>	<b>6.86E-03</b>		<b>358.9358</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	6.3607	76.3222				2.8634	2.8634		2.6343	2.6343			8,450.2296	2.5228		8,503.2072
<b>Total</b>	<b>6.3607</b>	<b>76.3222</b>			<b>0.2028</b>	<b>2.8634</b>	<b>3.0662</b>	<b>0.0219</b>	<b>2.6343</b>	<b>2.6562</b>			<b>8,450.23</b>	<b>2.5228</b>		<b>8,503.21</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			14.6773	0.0272	14.7045	1.4793	0.0251	1.5043			257.0294	1.5600e-003		257.0621
Worker	0.0470	0.0500			5.3331	8.0000e-004	5.3339	0.5447	7.3000e-004	0.5454			101.7624	5.3000e-003		101.8737
<b>Total</b>	<b>0.1002</b>	<b>1.0891</b>			<b>20.0104</b>	<b>0.028</b>	<b>20.0384</b>	<b>2.024</b>	<b>0.0258</b>	<b>2.0497</b>			<b>358.7918</b>	<b>6.86E-03</b>		<b>358.9358</b>

**3.39 Site 128 LST Removal - 2015**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	2.1563	23.1201				1.0090	1.0090		0.9464	0.9464			2,622.2746	0.7343		2,637.6942
<b>Total</b>	<b>2.1563</b>	<b>23.1201</b>			<b>0.5303</b>	<b>1.009</b>	<b>1.5392</b>	<b>0.0573</b>	<b>0.9464</b>	<b>1.0036</b>			<b>2,622.27</b>	<b>0.7343</b>		<b>2,637.69</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			35.3814	0.0182	35.3996	3.5424	0.0168	3.5592			172.5233	1.0500e-003		172.5454
Worker	0.0627	0.0667			25.5525	1.0700e-003	25.5536	2.5697	9.8000e-004	2.5707			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1014</b>	<b>0.7736</b>			<b>60.9339</b>	<b>0.0193</b>	<b>60.9532</b>	<b>6.1121</b>	<b>0.0177</b>	<b>6.1299</b>			<b>308.2065</b>	<b>8.12E-03</b>		<b>308.377</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	2.1563	23.1201				1.0090	1.0090		0.9464	0.9464			2,622.2746	0.7343		2,637.6942
<b>Total</b>	<b>2.1563</b>	<b>23.1201</b>			<b>0.2028</b>	<b>1.009</b>	<b>1.2118</b>	<b>0.0219</b>	<b>0.9464</b>	<b>0.9683</b>			<b>2,622.27</b>	<b>0.7343</b>		<b>2,637.69</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			9.7849	0.0182	9.8031	0.9862	0.0168	1.0030			172.5233	1.0500e-003		172.5454
Worker	0.0627	0.0667			7.1109	1.0700e-003	7.1119	0.7262	9.8000e-004	0.7272			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1014</b>	<b>0.7736</b>			<b>16.8957</b>	<b>0.0193</b>	<b>16.915</b>	<b>1.7124</b>	<b>0.0177</b>	<b>1.7302</b>			<b>308.2065</b>	<b>8.12E-03</b>		<b>308.377</b>

### 3.40 Wood Pole Removal - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	5.0085	58.0023				2.3833	2.3833		2.2039	2.2039			6,056.4720	1.7777		6,093.8046
<b>Total</b>	<b>5.0085</b>	<b>58.0023</b>			<b>0.5303</b>	<b>2.3833</b>	<b>2.9135</b>	<b>0.0573</b>	<b>2.2039</b>	<b>2.2612</b>			<b>6,056.47</b>	<b>1.7777</b>		<b>6,093.80</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			35.3814	0.0182	35.3996	3.5424	0.0168	3.5592			172.5233	1.0500e-003		172.5454
Worker	0.0470	0.0500			19.1644	8.0000e-004	19.1652	1.9273	7.3000e-004	1.9280			101.7624	5.3000e-003		101.8737
<b>Total</b>	<b>0.0857</b>	<b>0.7569</b>			<b>54.5457</b>	<b>0.019</b>	<b>54.5648</b>	<b>5.4697</b>	<b>0.0175</b>	<b>5.4872</b>			<b>274.2857</b>	<b>6.35E-03</b>		<b>274.4191</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	5.0085	58.0023				2.3833	2.3833		2.2039	2.2039			6,056.4720	1.7777		6,093.8046
<b>Total</b>	<b>5.0085</b>	<b>58.0023</b>			<b>0.2028</b>	<b>2.3833</b>	<b>2.5861</b>	<b>0.0219</b>	<b>2.2039</b>	<b>2.2258</b>			<b>6,056.47</b>	<b>1.7777</b>		<b>6,093.80</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			9.7849	0.0182	9.8031	0.9862	0.0168	1.0030			172.5233	1.0500e-003		172.5454
Worker	0.0470	0.0500			5.3331	8.0000e-004	5.3339	0.5447	7.3000e-004	0.5454			101.7624	5.3000e-003		101.8737
<b>Total</b>	<b>0.0857</b>	<b>0.7569</b>			<b>15.118</b>	<b>0.019</b>	<b>15.137</b>	<b>1.5309</b>	<b>0.0175</b>	<b>1.5484</b>			<b>274.2857</b>	<b>6.35E-03</b>		<b>274.4191</b>

**3.41 Seg 4 LST Removal - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.0998	23.2136				1.0855	1.0855		1.0168	1.0168			2,089.0872	0.5751		2,101.1641
<b>Total</b>	<b>2.0998</b>	<b>23.2136</b>			<b>0</b>	<b>1.0855</b>	<b>1.0855</b>	<b>0</b>	<b>1.0168</b>	<b>1.0168</b>			<b>2,089.09</b>	<b>0.5751</b>		<b>2,101.16</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			35.3814	0.0182	35.3996	3.5424	0.0168	3.5592			172.5233	1.0500e-003		172.5454
Worker	0.0627	0.0667			25.5525	1.0700e-003	25.5536	2.5697	9.8000e-004	2.5707			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1014</b>	<b>0.7736</b>			<b>60.9339</b>	<b>0.0193</b>	<b>60.9532</b>	<b>6.1121</b>	<b>0.0177</b>	<b>6.1299</b>			<b>308.2065</b>	<b>8.12E-03</b>		<b>308.377</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.0998	23.2136				1.0855	1.0855		1.0168	1.0168			2,089.0872	0.5751		2,101.1641
<b>Total</b>	<b>2.0998</b>	<b>23.2136</b>			<b>0</b>	<b>1.0855</b>	<b>1.0855</b>	<b>0</b>	<b>1.0168</b>	<b>1.0168</b>			<b>2,089.09</b>	<b>0.5751</b>		<b>2,101.16</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0387	0.7069			9.7849	0.0182	9.8031	0.9862	0.0168	1.0030			172.5233	1.0500e-003		172.5454
Worker	0.0627	0.0667			7.1109	1.0700e-003	7.1119	0.7262	9.8000e-004	0.7272			135.6832	7.0700e-003		135.8316
<b>Total</b>	<b>0.1014</b>	<b>0.7736</b>			<b>16.8957</b>	<b>0.0193</b>	<b>16.915</b>	<b>1.7124</b>	<b>0.0177</b>	<b>1.7302</b>			<b>308.2065</b>	<b>8.12E-03</b>		<b>308.377</b>

### 3.42 Site 128 Install J-Tower Footings - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000				0.0000
Off-Road	3.2454	38.7596				1.4865	1.4865		1.3676	1.3676			4,281.7539	1.2783			4,308.5979
<b>Total</b>	<b>3.2454</b>	<b>38.7596</b>			<b>0.5303</b>	<b>1.4865</b>	<b>2.0168</b>	<b>0.0573</b>	<b>1.3676</b>	<b>1.4249</b>			<b>4,281.75</b>	<b>1.2783</b>			<b>4,308.60</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			53.0720	0.0272	53.0992	5.3136	0.0251	5.3387			257.0294	1.5600e-003		257.0621
Worker	0.0470	0.0500			19.1644	8.0000e-004	19.1652	1.9273	7.3000e-004	1.9280			101.7624	5.3000e-003		101.8737

<b>Total</b>	<b>0.1002</b>	<b>1.0891</b>			<b>72.2364</b>	<b>0.028</b>	<b>72.2644</b>	<b>7.2409</b>	<b>0.0258</b>	<b>7.2667</b>			<b>358.7918</b>	<b>6.86E-03</b>		<b>358.9358</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000				0.0000
Off-Road	3.2454	38.7596				1.4865	1.4865		1.3676	1.3676			4,281.7539	1.2783			4,308.5979
<b>Total</b>	<b>3.2454</b>	<b>38.7596</b>			<b>0.2028</b>	<b>1.4865</b>	<b>1.6894</b>	<b>0.0219</b>	<b>1.3676</b>	<b>1.3895</b>			<b>4,281.75</b>	<b>1.2783</b>			<b>4,308.60</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Vendor	0.0531	1.0391			14.6773	0.0272	14.7045	1.4793	0.0251	1.5043			257.0294	1.5600e-003			257.0621
Worker	0.0470	0.0500			5.3331	8.0000e-004	5.3339	0.5447	7.3000e-004	0.5454			101.7624	5.3000e-003			101.8737
<b>Total</b>	<b>0.1002</b>	<b>1.0891</b>			<b>20.0104</b>	<b>0.028</b>	<b>20.0384</b>	<b>2.024</b>	<b>0.0258</b>	<b>2.0497</b>			<b>358.7918</b>	<b>6.86E-03</b>			<b>358.9358</b>

**3.43 Site 132 J-Tower Assembly & Erection - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	3.9206	43.6949				1.8336	1.8336		1.7050	1.7050			4,893.9158	1.4125		4,923.5772
<b>Total</b>	<b>3.9206</b>	<b>43.6949</b>			<b>0.5303</b>	<b>1.8336</b>	<b>2.3639</b>	<b>0.0573</b>	<b>1.705</b>	<b>1.7623</b>			<b>4,893.92</b>	<b>1.4125</b>		<b>4,923.58</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			53.0720	0.0272	53.0992	5.3136	0.0251	5.3387			257.0294	1.5600e-003		257.0621
Worker	0.0941	0.1000			38.3288	1.6000e-003	38.3304	3.8546	1.4700e-003	3.8560			203.5248	0.0106		203.7474
<b>Total</b>	<b>0.1472</b>	<b>1.1391</b>			<b>91.4008</b>	<b>0.0288</b>	<b>91.4296</b>	<b>9.1682</b>	<b>0.0265</b>	<b>9.1947</b>			<b>460.5541</b>	<b>0.0122</b>		<b>460.8095</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	3.9206	43.6949				1.8336	1.8336		1.7050	1.7050			4,893.9158	1.4125		4,923.5772

<b>Total</b>	<b>3.9206</b>	<b>43.6949</b>			<b>0.2028</b>	<b>1.8336</b>	<b>2.0364</b>	<b>0.0219</b>	<b>1.705</b>	<b>1.7269</b>			<b>4,893.92</b>	<b>1.4125</b>		<b>4,923.58</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			14.6773	0.0272	14.7045	1.4793	0.0251	1.5043			257.0294	1.5600e-003		257.0621
Worker	0.0941	0.1000			10.6663	1.6000e-003	10.6679	1.0894	1.4700e-003	1.0908			203.5248	0.0106		203.7474
<b>Total</b>	<b>0.1472</b>	<b>1.1391</b>			<b>25.3435</b>	<b>0.0288</b>	<b>25.3724</b>	<b>2.5686</b>	<b>0.0265</b>	<b>2.5951</b>			<b>460.5541</b>	<b>0.0122</b>		<b>460.8095</b>

**3.44 Site 128 J-Tower Assembly & Erection - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	4.6664	50.0289				2.4090	2.4090		2.2344	2.2344			4,970.9550	1.4355		5,001.0994
<b>Total</b>	<b>4.6664</b>	<b>50.0289</b>			<b>0.5303</b>	<b>2.409</b>	<b>2.9393</b>	<b>0.0573</b>	<b>2.2344</b>	<b>2.2917</b>			<b>4,970.96</b>	<b>1.4355</b>		<b>5,001.10</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			53.0720	0.0272	53.0992	5.3136	0.0251	5.3387			257.0294	1.5600e-003		257.0621
Worker	0.0941	0.1000			38.3288	1.6000e-003	38.3304	3.8546	1.4700e-003	3.8560			203.5248	0.0106		203.7474
<b>Total</b>	<b>0.1472</b>	<b>1.1391</b>			<b>91.4008</b>	<b>0.0288</b>	<b>91.4296</b>	<b>9.1682</b>	<b>0.0265</b>	<b>9.1947</b>			<b>460.5541</b>	<b>0.0122</b>		<b>460.8095</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	4.6664	50.0289				2.4090	2.4090		2.2344	2.2344			4,970.9550	1.4355		5,001.0994
<b>Total</b>	<b>4.6664</b>	<b>50.0289</b>			<b>0.2028</b>	<b>2.409</b>	<b>2.6119</b>	<b>0.0219</b>	<b>2.2344</b>	<b>2.2563</b>			<b>4,970.96</b>	<b>1.4355</b>		<b>5,001.10</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0531	1.0391			14.6773	0.0272	14.7045	1.4793	0.0251	1.5043			257.0294	1.5600e-003		257.0621
Worker	0.0941	0.1000			10.6663	1.6000e-003	10.6679	1.0894	1.4700e-003	1.0908			203.5248	0.0106		203.7474
<b>Total</b>	<b>0.1472</b>	<b>1.1391</b>			<b>25.3435</b>	<b>0.0288</b>	<b>25.3724</b>	<b>2.5686</b>	<b>0.0265</b>	<b>2.5951</b>			<b>460.5541</b>	<b>0.0122</b>		<b>460.8095</b>

### 3.45 Seg 4 LST Foundation Removal - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Off-Road	1.5930	17.0645				0.7918	0.7918		0.7465	0.7465			1,936.3603	0.5295			1,947.4797
<b>Total</b>	<b>1.593</b>	<b>17.0645</b>			<b>0</b>	<b>0.7918</b>	<b>0.7918</b>	<b>0</b>	<b>0.7465</b>	<b>0.7465</b>			<b>1,936.36</b>	<b>0.5295</b>			<b>1,947.48</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0193	0.3535			17.6907	9.1100e-003	17.6998	1.7712	8.3800e-003	1.7796			86.2616	5.3000e-004		86.2727
Worker	0.0314	0.0333			12.7763	5.3000e-004	12.7768	1.2849	4.9000e-004	1.2853			67.8416	3.5300e-003		67.9158
<b>Total</b>	<b>0.0507</b>	<b>0.3868</b>			<b>30.4669</b>	<b>9.64E-03</b>	<b>30.4766</b>	<b>3.0561</b>	<b>8.87E-03</b>	<b>3.0649</b>			<b>154.1032</b>	<b>4.06E-03</b>		<b>154.1885</b>



**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Off-Road	1.5930	17.0645				0.7918	0.7918		0.7465	0.7465			1,936.3603	0.5295			1,947.4797
<b>Total</b>	<b>1.593</b>	<b>17.0645</b>			<b>0</b>	<b>0.7918</b>	<b>0.7918</b>	<b>0</b>	<b>0.7465</b>	<b>0.7465</b>			<b>1,936.36</b>	<b>0.5295</b>			<b>1,947.48</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Vendor	0.0193	0.3535			4.8924	9.1100e-003	4.9015	0.4931	8.3800e-003	0.5015			86.2616	5.3000e-004			86.2727
Worker	0.0314	0.0333			3.5554	5.3000e-004	3.5560	0.3631	4.9000e-004	0.3636			67.8416	3.5300e-003			67.9158
<b>Total</b>	<b>0.0507</b>	<b>0.3868</b>			<b>8.4479</b>	<b>9.64E-03</b>	<b>8.4575</b>	<b>0.8562</b>	<b>8.87E-03</b>	<b>0.8651</b>			<b>154.1032</b>	<b>4.06E-03</b>			<b>154.1885</b>

**3.46 Santa Clara Maintenance - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4283	4.7431				0.2052	0.2052		0.1887	0.1887			459.4537	0.1372		462.3342
<b>Total</b>	<b>0.4283</b>	<b>4.7431</b>			<b>0</b>	<b>0.2052</b>	<b>0.2052</b>	<b>0</b>	<b>0.1887</b>	<b>0.1887</b>			<b>459.4537</b>	<b>0.1372</b>		<b>462.3342</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0157	0.0167			6.3881	2.7000e-004	6.3884	0.6424	2.4000e-004	0.6427			33.9208	1.7700e-003		33.9579
<b>Total</b>	<b>0.0157</b>	<b>0.0167</b>			<b>6.3881</b>	<b>2.70E-04</b>	<b>6.3884</b>	<b>0.6424</b>	<b>2.40E-04</b>	<b>0.6427</b>			<b>33.9208</b>	<b>1.77E-03</b>		<b>33.9579</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4283	4.7431				0.2052	0.2052		0.1887	0.1887			459.4537	0.1372		462.3342
<b>Total</b>	<b>0.4283</b>	<b>4.7431</b>			<b>0</b>	<b>0.2052</b>	<b>0.2052</b>	<b>0</b>	<b>0.1887</b>	<b>0.1887</b>			<b>459.4537</b>	<b>0.1372</b>		<b>462.3342</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0157	0.0167			1.7777	2.7000e-004	1.7780	0.1816	2.4000e-004	0.1818			33.9208	1.7700e-003		33.9579
<b>Total</b>	<b>0.0157</b>	<b>0.0167</b>			<b>1.7777</b>	<b>2.70E-04</b>	<b>1.778</b>	<b>0.1816</b>	<b>2.40E-04</b>	<b>0.1818</b>			<b>33.9208</b>	<b>1.77E-03</b>		<b>33.9579</b>

**3.47 Casitas Maintenance - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.2673	12.7720				0.7766	0.7766		0.7145	0.7145			864.9637	0.2582		870.3865
<b>Total</b>	<b>1.2673</b>	<b>12.772</b>			<b>0.5303</b>	<b>0.7766</b>	<b>1.3069</b>	<b>0.0573</b>	<b>0.7145</b>	<b>0.7718</b>			<b>864.9637</b>	<b>0.2582</b>		<b>870.3865</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0392	0.0417			15.9703	6.7000e-004	15.9710	1.6061	6.1000e-004	1.6067			84.8020	4.4200e-003		84.8948
<b>Total</b>	<b>0.0392</b>	<b>0.0417</b>			<b>15.9703</b>	<b>6.70E-04</b>	<b>15.971</b>	<b>1.6061</b>	<b>6.10E-04</b>	<b>1.6067</b>			<b>84.802</b>	<b>4.42E-03</b>		<b>84.8948</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	1.2673	12.7720				0.7766	0.7766		0.7145	0.7145			864.9637	0.2582		870.3865
<b>Total</b>	<b>1.2673</b>	<b>12.772</b>			<b>0.2028</b>	<b>0.7766</b>	<b>0.9795</b>	<b>0.0219</b>	<b>0.7145</b>	<b>0.7364</b>			<b>864.9637</b>	<b>0.2582</b>		<b>870.3865</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0392	0.0417			4.4443	6.7000e-004	4.4450	0.4539	6.1000e-004	0.4545			84.8020	4.4200e-003		84.8948

Total	0.0392	0.0417			4.4443	6.70E-04	4.445	0.4539	6.10E-04	0.4545			84.802	4.42E-03		84.8948
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### 3.48 Carpinteria Maintenance - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Off-Road	0.4283	4.7431				0.2052	0.2052		0.1887	0.1887			459.4537	0.1372			462.3342
<b>Total</b>	<b>0.4283</b>	<b>4.7431</b>			<b>0</b>	<b>0.2052</b>	<b>0.2052</b>	<b>0</b>	<b>0.1887</b>	<b>0.1887</b>			<b>459.4537</b>	<b>0.1372</b>			<b>462.3342</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0157	0.0167			6.3881	2.7000e-004	6.3884	0.6424	2.4000e-004	0.6427			33.9208	1.7700e-003		33.9579
<b>Total</b>	<b>0.0157</b>	<b>0.0167</b>			<b>6.3881</b>	<b>2.70E-04</b>	<b>6.3884</b>	<b>0.6424</b>	<b>2.40E-04</b>	<b>0.6427</b>			<b>33.9208</b>	<b>1.77E-03</b>		<b>33.9579</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4283	4.7431				0.2052	0.2052		0.1887	0.1887			459.4537	0.1372		462.3342
<b>Total</b>	<b>0.4283</b>	<b>4.7431</b>			<b>0</b>	<b>0.2052</b>	<b>0.2052</b>	<b>0</b>	<b>0.1887</b>	<b>0.1887</b>			<b>459.4537</b>	<b>0.1372</b>		<b>462.3342</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0157	0.0167			1.7777	2.7000e-004	1.7780	0.1816	2.4000e-004	0.1818			33.9208	1.7700e-003		33.9579
<b>Total</b>	<b>0.0157</b>	<b>0.0167</b>			<b>1.7777</b>	<b>2.70E-04</b>	<b>1.778</b>	<b>0.1816</b>	<b>2.40E-04</b>	<b>0.1818</b>			<b>33.9208</b>	<b>1.77E-03</b>		<b>33.9579</b>

**3.48 Carpinteria Maintenance - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4033	4.3669				0.1880	0.1880		0.1729	0.1729			454.6262	0.1371		457.5060

<b>Total</b>	<b>0.4033</b>	<b>4.3669</b>			<b>0</b>	<b>0.188</b>	<b>0.188</b>	<b>0</b>	<b>0.1729</b>	<b>0.1729</b>			<b>454.6262</b>	<b>0.1371</b>		<b>457.506</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			6.3881	2.5000e-004	6.3884	0.6424	2.3000e-004	0.6427			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>6.3881</b>	<b>2.50E-04</b>	<b>6.3884</b>	<b>0.6424</b>	<b>2.30E-04</b>	<b>0.6427</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4033	4.3669				0.1880	0.1880		0.1729	0.1729			454.6262	0.1371		457.5060
<b>Total</b>	<b>0.4033</b>	<b>4.3669</b>			<b>0</b>	<b>0.188</b>	<b>0.188</b>	<b>0</b>	<b>0.1729</b>	<b>0.1729</b>			<b>454.6262</b>	<b>0.1371</b>		<b>457.506</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			1.7777	2.5000e-004	1.7780	0.1816	2.3000e-004	0.1818			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>1.7777</b>	<b>2.50E-04</b>	<b>1.778</b>	<b>0.1816</b>	<b>2.30E-04</b>	<b>0.1818</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

### 3.49 Casitas Test - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1428	1.5810				0.0684	0.0684		0.0629	0.0629			153.1512	0.0457		154.1114
<b>Total</b>	<b>0.1428</b>	<b>1.581</b>			<b>0</b>	<b>0.0684</b>	<b>0.0684</b>	<b>0</b>	<b>0.0629</b>	<b>0.0629</b>			<b>153.1512</b>	<b>0.0457</b>		<b>154.1114</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					



Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	7.8400e-003	8.3300e-003			3.1941	1.3000e-004	3.1942	0.3212	1.2000e-004	0.3213			16.9604	8.8000e-004		16.9790
<b>Total</b>	<b>7.84E-03</b>	<b>8.33E-03</b>			<b>3.1941</b>	<b>1.30E-04</b>	<b>3.1942</b>	<b>0.3212</b>	<b>1.20E-04</b>	<b>0.3213</b>			<b>16.9604</b>	<b>8.80E-04</b>		<b>16.979</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1428	1.5810				0.0684	0.0684		0.0629	0.0629			153.1512	0.0457		154.1114
<b>Total</b>	<b>0.1428</b>	<b>1.581</b>			<b>0</b>	<b>0.0684</b>	<b>0.0684</b>	<b>0</b>	<b>0.0629</b>	<b>0.0629</b>			<b>153.1512</b>	<b>0.0457</b>		<b>154.1114</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	7.8400e-003	8.3300e-003			0.8889	1.3000e-004	0.8890	0.0908	1.2000e-004	0.0909			16.9604	8.8000e-004		16.9790
<b>Total</b>	<b>7.84E-03</b>	<b>8.33E-03</b>			<b>0.8889</b>	<b>1.30E-04</b>	<b>0.889</b>	<b>0.0908</b>	<b>1.20E-04</b>	<b>0.0909</b>			<b>16.9604</b>	<b>8.80E-04</b>		<b>16.979</b>



Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1428	1.5810				0.0684	0.0684		0.0629	0.0629			153.1512	0.0457		154.1114
<b>Total</b>	<b>0.1428</b>	<b>1.581</b>			<b>0</b>	<b>0.0684</b>	<b>0.0684</b>	<b>0</b>	<b>0.0629</b>	<b>0.0629</b>			<b>153.1512</b>	<b>0.0457</b>		<b>154.1114</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	7.8400e-003	8.3300e-003			0.8889	1.3000e-004	0.8890	0.0908	1.2000e-004	0.0909			16.9604	8.8000e-004		16.9790
<b>Total</b>	<b>7.84E-03</b>	<b>8.33E-03</b>			<b>0.8889</b>	<b>1.30E-04</b>	<b>0.889</b>	<b>0.0908</b>	<b>1.20E-04</b>	<b>0.0909</b>			<b>16.9604</b>	<b>8.80E-04</b>		<b>16.979</b>

**3.50 Santa Clara Test - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	7.1100e-003	7.4800e-003			3.1941	1.3000e-004	3.1942	0.3212	1.2000e-004	0.3213			16.3606	8.1000e-004		16.3776
<b>Total</b>	<b>7.11E-03</b>	<b>7.48E-03</b>			<b>3.1941</b>	<b>1.30E-04</b>	<b>3.1942</b>	<b>0.3212</b>	<b>1.20E-04</b>	<b>0.3213</b>			<b>16.3606</b>	<b>8.10E-04</b>		<b>16.3776</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	7.1100e-003	7.4800e-003			0.8889	1.3000e-004	0.8890	0.0908	1.2000e-004	0.0909			16.3606	8.1000e-004		16.3776
<b>Total</b>	<b>7.11E-03</b>	<b>7.48E-03</b>			<b>0.8889</b>	<b>1.30E-04</b>	<b>0.889</b>	<b>0.0908</b>	<b>1.20E-04</b>	<b>0.0909</b>			<b>16.3606</b>	<b>8.10E-04</b>		<b>16.3776</b>

**3.51 Carpinteria Test - 2016**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457			152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>			<b>152.502</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	7.1100e-003	7.4800e-003			3.1941	1.3000e-004	3.1942	0.3212	1.2000e-004	0.3213			16.3606	8.1000e-004		16.3776

<b>Total</b>	<b>7.11E-03</b>	<b>7.48E-03</b>			<b>3.1941</b>	<b>1.30E-04</b>	<b>3.1942</b>	<b>0.3212</b>	<b>1.20E-04</b>	<b>0.3213</b>			<b>16.3606</b>	<b>8.10E-04</b>		<b>16.3776</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	7.1100e-003	7.4800e-003			0.8889	1.3000e-004	0.8890	0.0908	1.2000e-004	0.0909			16.3606	8.1000e-004		16.3776
<b>Total</b>	<b>7.11E-03</b>	<b>7.48E-03</b>			<b>0.8889</b>	<b>1.30E-04</b>	<b>0.889</b>	<b>0.0908</b>	<b>1.20E-04</b>	<b>0.0909</b>			<b>16.3606</b>	<b>8.10E-04</b>		<b>16.3776</b>

**3.52 Golita Electrical - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			6.3881	2.5000e-004	6.3884	0.6424	2.3000e-004	0.6427			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>6.3881</b>	<b>2.50E-04</b>	<b>6.3884</b>	<b>0.6424</b>	<b>2.30E-04</b>	<b>0.6427</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020

<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			1.7777	2.5000e-004	1.7780	0.1816	2.3000e-004	0.1818			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>1.7777</b>	<b>2.50E-04</b>	<b>1.778</b>	<b>0.1816</b>	<b>2.30E-04</b>	<b>0.1818</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**3.53 Santa Barbara Electrical - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

**Unmitigated Construction Off-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			6.3881	2.5000e-004	6.3884	0.6424	2.3000e-004	0.6427			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>6.3881</b>	<b>2.50E-04</b>	<b>6.3884</b>	<b>0.6424</b>	<b>2.30E-04</b>	<b>0.6427</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			1.7777	2.5000e-004	1.7780	0.1816	2.3000e-004	0.1818			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>1.7777</b>	<b>2.50E-04</b>	<b>1.778</b>	<b>0.1816</b>	<b>2.30E-04</b>	<b>0.1818</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

### 3.54 Golita Test - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457			152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>			<b>152.502</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			6.3881	2.5000e-004	6.3884	0.6424	2.3000e-004	0.6427			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>6.3881</b>	<b>2.50E-04</b>	<b>6.3884</b>	<b>0.6424</b>	<b>2.30E-04</b>	<b>0.6427</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			1.7777	2.5000e-004	1.7780	0.1816	2.3000e-004	0.1818			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>1.7777</b>	<b>2.50E-04</b>	<b>1.778</b>	<b>0.1816</b>	<b>2.30E-04</b>	<b>0.1818</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**3.55 Santa Barbara Test - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000	
Off-Road	0.1344	1.4556				0.0627	0.0627			0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			6.3881	2.5000e-004	6.3884	0.6424	2.3000e-004	0.6427			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>6.3881</b>	<b>2.50E-04</b>	<b>6.3884</b>	<b>0.6424</b>	<b>2.30E-04</b>	<b>0.6427</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000	
Off-Road	0.1344	1.4556				0.0627	0.0627			0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			1.7777	2.5000e-004	1.7780	0.1816	2.3000e-004	0.1818			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>1.7777</b>	<b>2.50E-04</b>	<b>1.778</b>	<b>0.1816</b>	<b>2.30E-04</b>	<b>0.1818</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**3.56 Ortega Electrical - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			6.3881	2.5000e-004	6.3884	0.6424	2.3000e-004	0.6427			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>6.3881</b>	<b>2.50E-04</b>	<b>6.3884</b>	<b>0.6424</b>	<b>2.30E-04</b>	<b>0.6427</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000				0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457			152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>			<b>152.502</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			1.7777	2.5000e-004	1.7780	0.1816	2.3000e-004	0.1818			32.7212	1.6200e-003		32.7551

<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>1.7777</b>	<b>2.50E-04</b>	<b>1.778</b>	<b>0.1816</b>	<b>2.30E-04</b>	<b>0.1818</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>
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### 3.57 Ortega Test - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			6.3881	2.5000e-004	6.3884	0.6424	2.3000e-004	0.6427			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>6.3881</b>	<b>2.50E-04</b>	<b>6.3884</b>	<b>0.6424</b>	<b>2.30E-04</b>	<b>0.6427</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1344	1.4556				0.0627	0.0627		0.0576	0.0576			151.5421	0.0457		152.5020
<b>Total</b>	<b>0.1344</b>	<b>1.4556</b>			<b>0</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0</b>	<b>0.0576</b>	<b>0.0576</b>			<b>151.5421</b>	<b>0.0457</b>		<b>152.502</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0142	0.0150			1.7777	2.5000e-004	1.7780	0.1816	2.3000e-004	0.1818			32.7212	1.6200e-003		32.7551
<b>Total</b>	<b>0.0142</b>	<b>0.015</b>			<b>1.7777</b>	<b>2.50E-04</b>	<b>1.778</b>	<b>0.1816</b>	<b>2.30E-04</b>	<b>0.1818</b>			<b>32.7212</b>	<b>1.62E-03</b>		<b>32.7551</b>

**3.58 LWS Pole Haul - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.5367	18.4359				0.7225	0.7225		0.6647	0.6647			2,046.3262	0.6172		2,059.2883



<b>Total</b>	<b>1.5367</b>	<b>18.4359</b>			<b>0.5303</b>	<b>0.7225</b>	<b>1.2527</b>	<b>0.0573</b>	<b>0.6647</b>	<b>0.7219</b>			<b>2,046.33</b>	<b>0.6172</b>		<b>2,059.29</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0297	0.5917			35.3814	0.0160	35.3974	3.5425	0.0147	3.5572			169.1914	9.1000e-004		169.2105
Worker	0.0285	0.0299			12.7763	5.1000e-004	12.7768	1.2849	4.7000e-004	1.2853			65.4424	3.2300e-003		65.5103
<b>Total</b>	<b>0.0581</b>	<b>0.6216</b>			<b>48.1577</b>	<b>0.0165</b>	<b>48.1742</b>	<b>4.8273</b>	<b>0.0152</b>	<b>4.8425</b>			<b>234.6338</b>	<b>4.14E-03</b>		<b>234.7208</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	1.5367	18.4359				0.7225	0.7225		0.6647	0.6647			2,046.3262	0.6172		2,059.2883
<b>Total</b>	<b>1.5367</b>	<b>18.4359</b>			<b>0.2028</b>	<b>0.7225</b>	<b>0.9253</b>	<b>0.0219</b>	<b>0.6647</b>	<b>0.6866</b>			<b>2,046.33</b>	<b>0.6172</b>		<b>2,059.29</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0297	0.5917			9.7849	0.0160	9.8009	0.9862	0.0147	1.0010			169.1914	9.1000e-004		169.2105
Worker	0.0285	0.0299			3.5554	5.1000e-004	3.5559	0.3631	4.7000e-004	0.3636			65.4424	3.2300e-003		65.5103
<b>Total</b>	<b>0.0581</b>	<b>0.6216</b>			<b>13.3403</b>	<b>0.0165</b>	<b>13.3569</b>	<b>1.3493</b>	<b>0.0152</b>	<b>1.3645</b>			<b>234.6338</b>	<b>4.14E-03</b>		<b>234.7208</b>

**3.59 LWS Pole Assembly - 2016**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	2.8027	30.6269				1.5642	1.5642		1.4471	1.4471			2,640.7970	0.7700		2,656.9678
<b>Total</b>	<b>2.8027</b>	<b>30.6269</b>			<b>0.5303</b>	<b>1.5642</b>	<b>2.0945</b>	<b>0.0573</b>	<b>1.4471</b>	<b>1.5044</b>			<b>2,640.80</b>	<b>0.77</b>		<b>2,656.97</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0682	1.2235			70.7629	0.0322	70.7951	7.0849	0.0296	7.1145			341.8703	1.8600e-003		341.9094
Worker	0.0569	0.0599			25.5525	1.0200e-003	25.5535	2.5697	9.3000e-004	2.5706			130.8847	6.4700e-003		131.0205
<b>Total</b>	<b>0.1251</b>	<b>1.2833</b>			<b>96.3154</b>	<b>0.0332</b>	<b>96.3486</b>	<b>9.6546</b>	<b>0.0306</b>	<b>9.6852</b>			<b>472.7551</b>	<b>8.33E-03</b>		<b>472.9299</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	2.8027	30.6269				1.5642	1.5642		1.4471	1.4471			2,640.7970	0.7700		2,656.9678
<b>Total</b>	<b>2.8027</b>	<b>30.6269</b>			<b>0.2028</b>	<b>1.5642</b>	<b>1.767</b>	<b>0.0219</b>	<b>1.4471</b>	<b>1.469</b>			<b>2,640.80</b>	<b>0.77</b>		<b>2,656.97</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0682	1.2235			19.5699	0.0322	19.6021	1.9725	0.0296	2.0021			341.8703	1.8600e-003		341.9094
Worker	0.0569	0.0599			7.1109	1.0200e-003	7.1119	0.7262	9.3000e-004	0.7272			130.8847	6.4700e-003		131.0205
<b>Total</b>	<b>0.1251</b>	<b>1.2833</b>			<b>26.6807</b>	<b>0.0332</b>	<b>26.7139</b>	<b>2.6987</b>	<b>0.0306</b>	<b>2.7292</b>			<b>472.7551</b>	<b>8.33E-03</b>		<b>472.9299</b>

### 3.60 Instal LWS Pole - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	2.4503	29.0647				1.1650	1.1650		1.0718	1.0718			3,310.0905	0.9984		3,331.0578
<b>Total</b>	<b>2.4503</b>	<b>29.0647</b>			<b>0.5303</b>	<b>1.165</b>	<b>1.6952</b>	<b>0.0573</b>	<b>1.0718</b>	<b>1.129</b>			<b>3,310.09</b>	<b>0.9984</b>		<b>3,331.06</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0297	0.5917			35.3814	0.0160	35.3974	3.5425	0.0147	3.5572			169.1914	9.1000e-004		169.2105
Worker	0.0427	0.0449			19.1644	7.6000e-004	19.1652	1.9273	7.0000e-004	1.9280			98.1636	4.8500e-003		98.2654
<b>Total</b>	<b>0.0724</b>	<b>0.6366</b>			<b>54.5458</b>	<b>0.0168</b>	<b>54.5626</b>	<b>5.4697</b>	<b>0.0154</b>	<b>5.4852</b>			<b>267.3549</b>	<b>5.76E-03</b>		<b>267.4759</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	2.4503	29.0647				1.1650	1.1650		1.0718	1.0718			3,310.0905	0.9984		3,331.0578
<b>Total</b>	<b>2.4503</b>	<b>29.0647</b>			<b>0.2028</b>	<b>1.165</b>	<b>1.3678</b>	<b>0.0219</b>	<b>1.0718</b>	<b>1.0937</b>			<b>3,310.09</b>	<b>0.9984</b>		<b>3,331.06</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0297	0.5917			9.7849	0.0160	9.8009	0.9862	0.0147	1.0010			169.1914	9.1000e-004		169.2105
Worker	0.0427	0.0449			5.3331	7.6000e-004	5.3339	0.5447	7.0000e-004	0.5454			98.1636	4.8500e-003		98.2654
<b>Total</b>	<b>0.0724</b>	<b>0.6366</b>			<b>15.118</b>	<b>0.0168</b>	<b>15.1348</b>	<b>1.5309</b>	<b>0.0154</b>	<b>1.5463</b>			<b>267.3549</b>	<b>5.76E-03</b>		<b>267.4759</b>

**3.61 Install PRGW&FRC - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	11.6228	134.7626				5.2905	5.2905		4.8672	4.8672			15,870.0532	4.7870		15,970.5796
<b>Total</b>	<b>11.6228</b>	<b>134.7626</b>			<b>0.5303</b>	<b>5.2905</b>	<b>5.8207</b>	<b>0.0573</b>	<b>4.8672</b>	<b>4.9245</b>			<b>15,870.05</b>	<b>4.787</b>		<b>15,970.58</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.1423	0.1497			63.8813	2.5400e-003	63.8838	6.4243	2.3300e-003	6.4266			327.2118	0.0162		327.5513
<b>Total</b>	<b>0.1423</b>	<b>0.1497</b>			<b>63.8813</b>	<b>2.54E-03</b>	<b>63.8838</b>	<b>6.4243</b>	<b>2.33E-03</b>	<b>6.4266</b>			<b>327.2118</b>	<b>0.0162</b>		<b>327.5513</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	11.6228	134.7626				5.2905	5.2905		4.8672	4.8672			15,870.0532	4.7870		15,970.5796
<b>Total</b>	<b>11.6228</b>	<b>134.7626</b>			<b>0.2028</b>	<b>5.2905</b>	<b>5.4933</b>	<b>0.0219</b>	<b>4.8672</b>	<b>4.8891</b>			<b>15,870.05</b>	<b>4.787</b>		<b>15,970.58</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.1423	0.1497			17.7771	2.5400e-003	17.7797	1.8156	2.3300e-003	1.8179			327.2118	0.0162		327.5513
<b>Total</b>	<b>0.1423</b>	<b>0.1497</b>			<b>17.7771</b>	<b>2.54E-03</b>	<b>17.7797</b>	<b>1.8156</b>	<b>2.33E-03</b>	<b>1.8179</b>			<b>327.2118</b>	<b>0.0162</b>		<b>327.5513</b>

**3.62 Guard Structure Removal - 2016**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.4396	0.0000	1.4396	0.2180	0.0000	0.2180			0.0000				0.0000
Off-Road	2.0990	23.6958				0.9974	0.9974		0.9256	0.9256			2,611.6087	0.7612			2,627.5947
<b>Total</b>	<b>2.099</b>	<b>23.6958</b>			<b>1.4396</b>	<b>0.9974</b>	<b>2.4369</b>	<b>0.218</b>	<b>0.9256</b>	<b>1.1436</b>			<b>2,611.61</b>	<b>0.7612</b>			<b>2,627.59</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1066	1.9263			21.8237	0.0290	21.8527	2.1975	0.0267	2.2241			476.7721	2.9300e-003		476.8337
Vendor	0.0341	0.6117			35.3814	0.0161	35.3975	3.5425	0.0148	3.5573			170.9352	9.3000e-004		170.9547
Worker	0.0427	0.0449			19.1644	7.6000e-004	19.1652	1.9273	7.0000e-004	1.9280			98.1636	4.8500e-003		98.2654

<b>Total</b>	<b>0.1834</b>	<b>2.583</b>			<b>76.3695</b>	<b>0.0459</b>	<b>76.4153</b>	<b>7.6672</b>	<b>0.0422</b>	<b>7.7094</b>			<b>745.8708</b>	<b>8.71E-03</b>		<b>746.0538</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.5506	0.0000	0.5506	0.0834	0.0000	0.0834			0.0000				0.0000
Off-Road	2.0990	23.6958				0.9974	0.9974		0.9256	0.9256			2,611.6087	0.7612			2,627.5947
<b>Total</b>	<b>2.099</b>	<b>23.6958</b>			<b>0.5506</b>	<b>0.9974</b>	<b>1.548</b>	<b>0.0834</b>	<b>0.9256</b>	<b>1.009</b>			<b>2,611.61</b>	<b>0.7612</b>			<b>2,627.59</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1066	1.9263			6.0821	0.0290	6.1111	0.6239	0.0267	0.6506			476.7721	2.9300e-003		476.8337
Vendor	0.0341	0.6117			9.7849	0.0161	9.8010	0.9862	0.0148	1.0010			170.9352	9.3000e-004		170.9547
Worker	0.0427	0.0449			5.3331	7.6000e-004	5.3339	0.5447	7.0000e-004	0.5454			98.1636	4.8500e-003		98.2654
<b>Total</b>	<b>0.1834</b>	<b>2.583</b>			<b>21.2001</b>	<b>0.0459</b>	<b>21.246</b>	<b>2.1548</b>	<b>0.0422</b>	<b>2.197</b>			<b>745.8708</b>	<b>8.71E-03</b>		<b>746.0538</b>

**3.63 Duct Bank Installation - 2016**

**Unmitigated Construction On-Site**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	4.0918	46.1166				1.8295	1.8295		1.6912	1.6912			5,769.7118	1.7138		5,805.7023
<b>Total</b>	<b>4.0918</b>	<b>46.1166</b>			<b>0.5303</b>	<b>1.8295</b>	<b>2.3597</b>	<b>0.0573</b>	<b>1.6912</b>	<b>1.7484</b>			<b>5,769.71</b>	<b>1.7138</b>		<b>5,805.70</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0427	0.0449			19.1644	7.6000e-004	19.1652	1.9273	7.0000e-004	1.9280			98.1636	4.8500e-003		98.2654
<b>Total</b>	<b>0.0427</b>	<b>0.0449</b>			<b>19.1644</b>	<b>7.60E-04</b>	<b>19.1652</b>	<b>1.9273</b>	<b>7.00E-04</b>	<b>1.928</b>			<b>98.1636</b>	<b>4.85E-03</b>		<b>98.2654</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	4.0918	46.1166				1.8295	1.8295		1.6912	1.6912			5,769.7118	1.7138		5,805.7022

<b>Total</b>	<b>4.0918</b>	<b>46.1166</b>			<b>0.2028</b>	<b>1.8295</b>	<b>2.0323</b>	<b>0.0219</b>	<b>1.6912</b>	<b>1.7131</b>			<b>5,769.71</b>	<b>1.7138</b>		<b>5,805.70</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0427	0.0449			5.3331	7.6000e-004	5.3339	0.5447	7.0000e-004	0.5454			98.1636	4.8500e-003		98.2654
<b>Total</b>	<b>0.0427</b>	<b>0.0449</b>			<b>5.3331</b>	<b>7.60E-04</b>	<b>5.3339</b>	<b>0.5447</b>	<b>7.00E-04</b>	<b>0.5454</b>			<b>98.1636</b>	<b>4.85E-03</b>		<b>98.2654</b>

**3.64 UG Cable Installation - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	4.7337	54.0110				2.3679	2.3679		2.1785	2.1785			5,706.2929	1.7212		5,742.4385
<b>Total</b>	<b>4.7337</b>	<b>54.011</b>			<b>0.5303</b>	<b>2.3679</b>	<b>2.8982</b>	<b>0.0573</b>	<b>2.1785</b>	<b>2.2358</b>			<b>5,706.29</b>	<b>1.7212</b>		<b>5,742.44</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0569	0.0599			25.5525	1.0200e-003	25.5535	2.5697	9.3000e-004	2.5706			130.8847	6.4700e-003		131.0205
<b>Total</b>	<b>0.0569</b>	<b>0.0599</b>			<b>25.5525</b>	<b>1.02E-03</b>	<b>25.5535</b>	<b>2.5697</b>	<b>9.30E-04</b>	<b>2.5706</b>			<b>130.8847</b>	<b>6.47E-03</b>		<b>131.0205</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2028	0.0000	0.2028	0.0219	0.0000	0.0219			0.0000			0.0000
Off-Road	4.7337	54.0110				2.3679	2.3679		2.1785	2.1785			5,706.2929	1.7212		5,742.4385
<b>Total</b>	<b>4.7337</b>	<b>54.011</b>			<b>0.2028</b>	<b>2.3679</b>	<b>2.5708</b>	<b>0.0219</b>	<b>2.1785</b>	<b>2.2004</b>			<b>5,706.29</b>	<b>1.7212</b>		<b>5,742.44</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0569	0.0599			7.1109	1.0200e-003	7.1119	0.7262	9.3000e-004	0.7272			130.8847	6.4700e-003		131.0205
<b>Total</b>	<b>0.0569</b>	<b>0.0599</b>			<b>7.1109</b>	<b>1.02E-03</b>	<b>7.1119</b>	<b>0.7262</b>	<b>9.30E-04</b>	<b>0.7272</b>			<b>130.8847</b>	<b>6.47E-03</b>		<b>131.0205</b>

### 3.65 Restoration - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0705	0.0000	0.0705	7.6100e-003	0.0000	7.6100e-003			0.0000				0.0000
Off-Road	1.9456	23.8293				0.8819	0.8819		0.8114	0.8114			2,708.1397	0.8169			2,725.2940
<b>Total</b>	<b>1.9456</b>	<b>23.8293</b>			<b>0.0705</b>	<b>0.8819</b>	<b>0.9524</b>	<b>7.61E-03</b>	<b>0.8114</b>	<b>0.819</b>			<b>2,708.14</b>	<b>0.8169</b>			<b>2,725.29</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0341	0.6117			35.3814	0.0161	35.3975	3.5425	0.0148	3.5573			170.9352	9.3000e-004		170.9547
Worker	0.0498	0.0524			22.3585	8.9000e-004	22.3593	2.2485	8.2000e-004	2.2493			114.5241	5.6600e-003		114.6429
<b>Total</b>	<b>0.0839</b>	<b>0.6641</b>			<b>57.7399</b>	<b>0.017</b>	<b>57.7569</b>	<b>5.791</b>	<b>0.0156</b>	<b>5.8066</b>			<b>285.4593</b>	<b>6.59E-03</b>		<b>285.5976</b>

### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.0270	0.0000	0.0270	2.9100e-003	0.0000	2.9100e-003			0.0000				0.0000
Off-Road	1.9456	23.8293				0.8819	0.8819		0.8114	0.8114			2,708.1397	0.8169			2,725.2940
<b>Total</b>	<b>1.9456</b>	<b>23.8293</b>			<b>0.027</b>	<b>0.8819</b>	<b>0.9089</b>	<b>2.91E-03</b>	<b>0.8114</b>	<b>0.8143</b>			<b>2,708.14</b>	<b>0.8169</b>			<b>2,725.29</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Vendor	0.0341	0.6117			9.7849	0.0161	9.8010	0.9862	0.0148	1.0010			170.9352	9.3000e-004			170.9547
Worker	0.0498	0.0524			6.2220	8.9000e-004	6.2229	0.6355	8.2000e-004	0.6363			114.5241	5.6600e-003			114.6429
<b>Total</b>	<b>0.0839</b>	<b>0.6641</b>			<b>16.0069</b>	<b>0.017</b>	<b>16.0239</b>	<b>1.6217</b>	<b>0.0156</b>	<b>1.6373</b>			<b>285.4593</b>	<b>6.59E-03</b>			<b>285.5976</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.474028	0.063287	0.180321	0.158861	0.070757	0.010543	0.013219	0.016605	0.000784	0.000665	0.005582	0.000318	0.005029

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**  
**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>				<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>				<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000		0.0000

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>				<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

#### Mitigated



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000	0.0000			0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>				<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## 10.0 Vegetation

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## HELICOPTER (KAMAN K-MAX) EMISION CALCULATIONS

Type	Kaman K-Max	
Engine HP	1800 hp	
Fuel Burn Rate	85 gal/hr	(Lockheed 2010)
Fuel Type	Jet Fuel A	
High Heat Value	72.22 kg CO2/MMBtu	(ARB 2012)
CO2 emission factor	0.135 MMBtu/gal	(ARB 2012)

Activity	Emissions lbs/hr			
	HC	NOx	PM	CO2
Flight	0.33	8.18	0.44	1823
Idle	14.73	0.33	0.02	456

Construction Phase	Activity	# of Helicopters	Working Hrs	Emissions lbs/day			
				HC	NOx	PM	CO2
Site 97 J-Tower Assembly & Erection	Flight	1	6	1.96	49.09	2.65	10939
	Idle		0.6	8.84	1.96	0.10	273
	TOTAL			10.8	51.05	2.75	11213
Site 99 J-Tower Assembly & Erection	Flight	1	6	1.96	49.09	2.65	10939
	Idle		0.6	8.84	1.96	0.10	273
	TOTAL			10.8	51.05	2.75	11213
Site 128 LST Removal	Flight	2	6	3.93	98.18	5.30	21878
	Idle		0.6	17.67	3.93	0.20	547
	TOTAL			21.6	102.11	5.50	22425
Site 128 J-Tower Assembly & Erection	Flight	1	6	1.96	49.09	2.65	10939
	Idle		0.6	8.84	1.96	0.10	273
	TOTAL			10.8	51.05	2.75	11213
Site 132 J-Tower LST Removal	Flight	2	6	3.93	98.18	5.30	21878
	Idle		0.6	17.67	3.93	0.20	547
	TOTAL			21.6	102.11	5.50	22425
Site 132 Install J-Tower Footings	Flight	1	4	1.31	32.73	1.77	7293
	Idle		0.4	5.89	1.31	0.07	182
	TOTAL			7.2	34.04	1.83	7475
Site 132 J-Tower Assembly & Erection	Flight	1	6	1.96	49.09	2.65	10939
	Idle		0.6	8.84	1.96	0.10	273
	TOTAL			10.8	51.05	2.75	11213
Remove Idle LST Removal	Flight	2	6	3.93	98.18	5.30	21878
	Idle		0.6	17.67	3.93	0.20	547
	TOTAL			21.6	102.11	5.50	22425

Construction Phase	Working Days	Emissions tons/yr			MT/yr
		HC	NOx	PM	CO2
Site 97 J-Tower Assembly & Erection	1	0.005	0.026	0.001	4
<b>Site 97 TOTAL</b>		<b>0.005</b>	<b>0.026</b>	<b>0.001</b>	<b>4</b>
Site 99 J-Tower Assembly & Erection	1	0.005	0.026	0.001	4
<b>Site 99 TOTAL</b>		<b>0.005</b>	<b>0.026</b>	<b>0.001</b>	<b>4</b>
Site 128 LST Removal	1	0.011	0.051	0.003	8
Site 128 J-Tower Assembly & Erection	1	0.005	0.026	0.001	4
<b>Site 128 TOTAL</b>		<b>0.016</b>	<b>0.077</b>	<b>0.004</b>	<b>13</b>
Site 132 J-Tower LST Removal	1	0.011	0.051	0.003	8
Site 132 Install J-Tower Footings	1	0.004	0.017	0.001	3
Site 132 J-Tower Assembly & Erection	1	0.0054	0.0255	0.0014	4
<b>Site 132 TOTAL</b>		<b>0.0198</b>	<b>0.0936</b>	<b>0.0050</b>	<b>15</b>
Remove Idle LST Removal	1	0.0108	0.051	0.0027	8
<b>Remove Idle TOTAL</b>		<b>0.011</b>	<b>0.051</b>	<b>0.003</b>	<b>8</b>

### Notes

Emission factors for 1100 hp T53-L011D engine helicopter obtained from Antelope Transmission Project - Segments 2 & 3 EIR (CPUC 2006) and adjusted for Kaman K-Max engine hp (1500 hp).  
 Flight hourly CO2 emission rates based on fuel burn rate along with high heat value and CO2 emission factor from ARB 2011 for Jet Fuel.  
 Idling hourly CO2 emission rates are estimated to be approximately 25% of the flight hourly emission rate.  
 Idle time assumed 10% of working time for helicopters  
 Hours and days of use for helicopter operation based on construction estimates presented in Scope Change tables

### Sources

California Air Resources Board (ARB). Regulation for the Mandatory Reporting of Greenhouse Gas Emissions. Petroleum Fuels. Section 95115(c)(1)  
 California Public Utilities Commission (CPUC). Southern California Edison's Antelope Transmission Project, Segments 2 and 3 Final Environmental Impact Report. 2006. (<http://www.cpuc.ca.gov/Environment/info/aspden/atp2-3/atp2-3.htm>)  
 Lockheed Martin Corporation. K-MAX Unmanned Aircraft System Brochure.  
<http://www.lockheedmartin.com/content/dam/lockheed/data/ms2/documents/K-MAX-brochure.pdf>. 2010. Accessed October 29, 2013.

## HELICOPTER (A-STAR AS350) EMISION CALCULATIONS

Type	A-Star AS350	
Engine HP	732 hp	(AE 2013)
Fuel Burn Rate	45 gal/hr	(IAT 2013)
Fuel Type	Jet Fuel A	
High Heat Value	72.22 kg CO2/MMBtu	(ARB 2012)
CO2 emission factor	0.135 MMBtu/gal	(ARB 2012)

Activity	Emissions lbs/hr			
	HC	NOx	PM	CO2
Flight	0.13	3.33	0.18	965
Idle	5.99	0.13	0.01	241

Construction Phase	Activity	# of Helicopters	Working Hrs	Emissions lbs/day			
				HC	NOx	PM	CO2
Site 132 Install J-Tower Footings	Flight	2	4	1.06	26.62	1.44	7722
	Idle		0.4	4.79	1.06	0.05	193
	<b>TOTAL</b>			<b>5.856</b>	<b>27.68</b>	<b>1.49</b>	<b>7915</b>

Construction Phase	Working Days	Emissions tons/yr			MT/yr
		HC	NOx	PM	CO2
Site 132 Install J-Tower Foundations	1	0.003	0.014	0.001	3
<b>TOTAL Site 132</b>		<b>0.003</b>	<b>0.014</b>	<b>0.001</b>	<b>2.954</b>

### Notes

Emission factors for 1100 hp T53-L011D engine helicopter obtained from Antelope Transmission Project - Segments 2 & 3 EIR (CPUC 2006) and adjusted for A-Star AS350 engine hp (732 hp).

Flight hourly CO2 emission rates based on fuel burn rate along with high heat value and CO2 emission factor from ARB 2011 for Jet Fuel. Idling hourly CO2 emission rates are estimated to be approximately 25% of the flight hourly emission rate.

Idle time assumed 10% of working time for helicopters

Hours and days of use for helicopter operation based on construction estimates presented in Scope Change tables.

### Sources

American Eurocopter (AE). AS350 B2 Specifications. <http://www.eurocopterusa.com/products/AS350B2-specifications.asp>. Accessed November 12, 2013.

California Air Resources Board (ARB). Regulation for the Mandatory Reporting of Greenhouse Gas Emissions. Petroleum Fuels. California Public Utilities Commission (CPUC). Southern California Edison's Antelope Transmission Project, Segments 2 and 3 Final Environmental Impact Report. 2006. (<http://www.cpuc.ca.gov/Environment/info/asp/atp2-3/atp2-3.htm>)

Interagency Aviation Training (IAT). IAT Aircraft Library. [https://www.iat.gov/aircraft\\_library/helicopters/as-350.html](https://www.iat.gov/aircraft_library/helicopters/as-350.html). Accessed November 12, 2013.

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C2 – Ecology and Environment, Inc., Air Calculations, Project Options

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**SBCRP - Underground Options Emissions  
Emissions Summary**

**Table 1  
Option C: Peak Daily Criteria Pollutant Construction Emissions by Activity**

Activity	ROG (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)
Vault Installation	10.85	41.83	83.07	0.14	66.80	9.95
Duct Bank Installation	3.08	19.35	19.20	0.04	62.69	7.09
Install Underground Cable	11.53	40.00	86.61	0.15	4.24	2.88
Distribution Relocation - Cable and Civil	6.92	33.36	54.60	0.09	24.82	4.53
<b>TOTAL Peak Daily Undergrounding Emissions</b>	<b>32.37</b>	<b>134.55</b>	<b>243.47</b>	<b>0.42</b>	<b>158.55</b>	<b>24.45</b>

Assumption: Construction of Option C would occur along a 0.89-mile length and a total duration of 30 days

**Table 2  
Option C: Total Criteria Pollutant Emissions from Underground Construction**

Activity	ROG	CO	NOX	SOX	PM10	PM2.5
Vault Installation	325.44	1254.99	2491.97	4.30	2003.96	298.40
Duct Bank Installation	92.25	580.64	575.97	1.22	1880.85	212.84
Install Underground Cable	345.83	1200.06	2598.36	4.49	127.12	86.40
Distribution Relocation - Cable and Civil	207.70	1000.93	1637.89	2.57	744.63	135.87
<b>TOTAL Underground Construction Emissions (lbs)</b>	<b>971</b>	<b>4037</b>	<b>7304</b>	<b>13</b>	<b>4757</b>	<b>734</b>
<b>TOTAL Underground Construction Emissions (tons)</b>	<b>0.49</b>	<b>2.02</b>	<b>3.65</b>	<b>0.006</b>	<b>2.38</b>	<b>0.37</b>

Assumption: Construction of Option C would have a total duration of 30 days

**Table 3  
Option C: Total Greenhouse Gas Emissions (GHG) Compared to Interim GHG Thresholds**

Phase	CO2e (MT)
Vault Installation	52.02
Duct Bank Installation	3.57
Install Underground Cable	54.64
Distribution Relocation - Cable and Civil	37.97
<b>TOTAL</b>	<b>148</b>
<b>Lead Agency GHG Threshold of Significance<sup>a</sup></b>	<b>10,000</b>
<b>Exceeds Threshold?</b>	<b>No</b>

VOC = volatile organic compounds

CO = carbon monoxide

NOX = nitrogen oxides

SOX = sulfur oxides

PM10 = particulate matter measuring less than 10 microns

PM2.5 = particulate matter measuring less than 2.5 micron

lb/day = pounds per day

<sup>a</sup> 10,000 MT/year of CO2e threshold has been selected by the CPUC as significance criteria for GHG

Draft Guidance Document - Interim CEQA GHG Significance Threshold (October 2008)

**SBCRP - Underground Options Emissions  
Emissions Summary**

**Table 4  
Option D: Peak Daily Criteria Pollutant Construction Emissions by Activity**

Activity	ROG (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)
Vault Installation	10.85	41.83	83.07	0.14	66.83	9.95
Duct Bank Installation	3.08	19.35	19.20	0.04	62.69	7.09
Install Underground Cable	11.53	40.00	86.61	0.15	4.24	2.88
Distribution Relocation - Cable and Civil	6.92	33.36	54.60	0.09	24.82	4.53
<b>TOTAL Peak Daily Undergrounding Emissions</b>	<b>32.37</b>	<b>134.55</b>	<b>243.47</b>	<b>0.42</b>	<b>158.58</b>	<b>24.46</b>

Assumption: Construction of Option D would occur along a 3.4-length and a total duration of 91 days.

**Table 5  
Option D: Total Criteria Pollutant Emissions from Underground Construction**

Activity	ROG	CO	NOX	SOX	PM10	PM2.5
Vault Installation	987	3807	7559	13	6081	906
Duct Bank Installation	280	1761	1747	4	5705	646
Install Underground Cable	1049	3640	7882	14	386	262
Distribution Relocation - Cable and Civil	630	3036	4968	8	2259	412
<b>TOTAL Underground Construction Emissions (lbs)</b>	<b>2946</b>	<b>12244</b>	<b>22156</b>	<b>38</b>	<b>14431</b>	<b>2226</b>
<b>TOTAL Underground Construction Emissions (tons)</b>	<b>1.47</b>	<b>6.12</b>	<b>11.08</b>	<b>0.02</b>	<b>7.22</b>	<b>1.11</b>

Assumption: Construction of Option D would have a total duration of 91 days.

**Table 6  
Option E: Total Greenhouse Gas Emissions (GHG) Compared to Interim GHG Thresholds**

Phase	CO2e (MT)
Vault Installation	182.08
Duct Bank Installation	76.27
Install Underground Cable	54.64
Distribution Relocation - Cable and Civil	37.97
<b>TOTAL</b>	<b>351</b>
<b>Lead Agency GHG Threshold of Significance<sup>a</sup></b>	<b>10,000</b>
<b>Exceeds Threshold?</b>	<b>No</b>

VOC = volatile organic compounds

CO = carbon monoxide

NOX = nitrogen oxides

SOX = sulfur oxides

PM10 = particulate matter measuring less than 10 microns

PM2.5 = particulate matter measuring less than 2.5 micron

lb/day = pounds per day

<sup>a</sup> 10,000 MT/year of CO2e threshold has been selected by the CPUC as significance criteria for GHG

Draft Guidance Document - Interim CEQA GHG Significance Threshold (October 2008)



**SBCRP - Underground Options Emissions  
Vault Installation Emissions**

**Option C: Emissions Summary**

Source	VOC (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO2e (MT)
Construction Equipment Exhaust	9.57	32.02	77.06	0.12	2.87	2.64	44.0
Onsite Motor Vehicle Exhaust	0.11	0.74	0.69	0.00	0.04	0.03	0.7
Onsite Motor Vehicle Fugitive PM	--	--	--	--	55.09	5.51	
Earthwork Fugitive PM	--	--	--	--	7.29	1.52	
<b>Onsite Total</b>	<b>9.68</b>	<b>32.77</b>	<b>77.76</b>	<b>0.12</b>	<b>65.29</b>	<b>9.69</b>	<b>44.7</b>
Offsite Motor Vehicle Exhaust	1.17	9.07	5.31	0.02	0.32	0.25	7.3
Offsite Motor Vehicle Fugitive PM	--	--	--	--	1.19	0.00	
<b>Offsite Total</b>	<b>1.17</b>	<b>9.07</b>	<b>5.31</b>	<b>0.02</b>	<b>1.51</b>	<b>0.25</b>	<b>7.3</b>
<b>Total</b>	<b>10.85</b>	<b>41.83</b>	<b>83.07</b>	<b>0.14</b>	<b>66.80</b>	<b>9.95</b>	<b>52.0</b>

Assumption: Vault installation for Option C would have a total duration of 8 days

**Option C: Construction Equipment Summary**

Equipment	Horse-power	Number	Days Used	Hours Used/Day
Excavator	250	1	8	10
Crane (L)	500	1	8	10
Flat Bed Truck/Trailer	400	3	8	10
Backhoe/Front Loader	125	1	8	10

**Construction Equipment Exhaust Emission Factors**

Equipment	Horse-power	VOC (lb/hr) <sup>a</sup>	CO (lb/hr) <sup>a</sup>	NOX (lb/hr) <sup>a</sup>	SOX (lb/hr) <sup>a</sup>	PM10 (lb/hr) <sup>a</sup>	PM2.5 (lb/hr) <sup>b</sup>	CO2 (lb/hr) <sup>a</sup>	CH4 (lb/hr) <sup>a</sup>
Excavator	250	0.098	0.282	0.909	0.001	0.032	0.029	112.159	0.009
Crane (L)	500	0.147	0.495	1.298	0.002	0.047	0.043	180.101	0.013
Flat Bed Truck/Trailer	400	0.207	0.613	1.595	0.003	0.057	0.052	272.334	0.019
Backhoe/Front Loader	125	0.092	0.586	0.716	0.001	0.038	0.035	101.387	0.008

<sup>a</sup> From Table 27

<sup>b</sup> Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction=

0.920

From Appendix A, Final-Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

[http://www.aqmd.gov/ceqa/handbook/PM2\\_5/PM2\\_5.html](http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html)

**Construction Equipment Daily Criteria Pollutant Exhaust Emissions**

Equipment	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
Excavator	0.98	2.82	9.09	0.01	0.32	0.29
Crane (L)	1.47	4.95	12.98	0.02	0.47	0.43
Flat Bed Truck/Trailer	6.20	18.40	47.84	0.08	1.70	1.57
Backhoe/Front Loader	0.92	5.86	7.16	0.01	0.38	0.35
<b>Total</b>	<b>9.57</b>	<b>32.02</b>	<b>77.06</b>	<b>0.12</b>	<b>2.87</b>	<b>2.64</b>

<sup>a</sup> Emissions [lb/day] = number x hours/day x emission factor [lb/hr]

**Construction Equipment Total Greenhouse Gas Emissions**

Equipment	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
Excavator	4.1	0.0	4.1
Crane (L)	6.5	0.0	6.5
Flat Bed Truck/Trailer	29.6	0.0	29.7
Backhoe/Front Loader	3.7	0.0	3.7
<b>Total</b>	<b>43.9</b>	<b>0.0</b>	<b>44.0</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x hours/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action

Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

**Motor Vehicle Usage**

Vehicle	Number	Days Used	Hours Used/Day	Miles/Day/Veh.
<b>Onsite</b>				
1-Ton Crew Cab, 4x4	2	8	N/A	3
Water Truck	1	8	N/A	10
Concrete Mixer Truck	3	8	N/A	3
Dump Truck	3	8	N/A	3
Lowboy Truck/Trailer	1	8	N/A	3
Worker Commute	20	8	N/A	3
<b>Offsite</b>				
1-Ton Crew Cab, 4x4	2	8	N/A	50
Water Truck	1	8	N/A	25
Concrete Mixer Truck	3	8	N/A	25
Dump Truck	3	8	N/A	25
Lowboy Truck/Trailer	1	8	N/A	25
Worker Commute	20	8	N/A	50

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Motor Vehicle Exhaust Emission Factors

Vehicle	Category	VOC (lb/mi) <sup>a</sup>	CO (lb/mi) <sup>a</sup>	NOX (lb/mi) <sup>a</sup>	SOX (lb/mi) <sup>a</sup>	PM10 (lb/mi) <sup>a</sup>	PM2.5 (lb/mi) <sup>b</sup>	CO2 (lb/mi) <sup>a</sup>	CH4 (lb/mi) <sup>a</sup>
<b>Onsite</b>									
1-Ton Crew Cab, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Water Truck	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Concrete Mixer Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Dump Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
<b>Offsite</b>									
1-Ton Crew Cab, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Water Truck	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Concrete Mixer Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Dump Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05

<sup>a</sup> From Table 28 or Table 29

Motor Vehicle Daily Criteria Pollutant Exhaust Emissions

Vehicle	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
<b>Onsite</b>						
1-Ton Crew Cab, 4x4	0.00	0.04	0.00	0.00	0.00	0.00
Water Truck	0.02	0.13	0.14	0.00	0.01	0.00
Concrete Mixer Truck	0.02	0.08	0.22	0.00	0.01	0.01
Dump Truck	0.02	0.08	0.22	0.00	0.01	0.01
Lowboy Truck/Trailer	0.01	0.03	0.07	0.00	0.00	0.00
Worker Commute	0.04	0.40	0.04	0.00	0.01	0.00
<b>Onsite Total</b>	<b>0.11</b>	<b>0.74</b>	<b>0.69</b>	<b>0.00</b>	<b>0.04</b>	<b>0.03</b>
<b>Offsite</b>						
1-Ton Crew Cab, 4x4	0.07	0.66	0.07	0.00	0.01	0.01
Water Truck	0.05	0.32	0.36	0.00	0.01	0.01
Concrete Mixer Truck	0.15	0.63	1.81	0.00	0.09	0.08
Dump Truck	0.15	0.63	1.81	0.00	0.09	0.08
Lowboy Truck/Trailer	0.05	0.21	0.60	0.00	0.03	0.03
Worker Commute	0.70	6.60	0.65	0.01	0.09	0.06
<b>Offsite Total</b>	<b>1.17</b>	<b>9.07</b>	<b>5.31</b>	<b>0.02</b>	<b>0.32</b>	<b>0.25</b>
<b>Total</b>	<b>1.28</b>	<b>9.81</b>	<b>6.00</b>	<b>0.02</b>	<b>0.36</b>	<b>0.28</b>

<sup>a</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

Motor Vehicle Total Greenhouse Gas Emissions

Vehicle	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
<b>Onsite</b>			
1-Ton Crew Cab, 4x4	0.0	0.0	0.0
Water Truck	0.1	0.0	0.1
Concrete Mixer Truck	0.1	0.0	0.1
Dump Truck	0.1	0.0	0.1
Lowboy Truck/Trailer	0.0	0.0	0.0
Worker Commute	0.2	0.0	0.2
<b>Onsite Total</b>	<b>0.7</b>	<b>0.0</b>	<b>0.7</b>
<b>Offsite</b>			
1-Ton Crew Cab, 4x4	0.4	0.0	0.4
Water Truck	0.3	0.0	0.3
Concrete Mixer Truck	1.1	0.0	1.1
Dump Truck	1.1	0.0	1.1
Lowboy Truck/Trailer	0.4	0.0	0.4
Worker Commute	4.0	0.0	4.0
<b>Offsite Total</b>	<b>7.3</b>	<b>0.0</b>	<b>7.3</b>
<b>Total</b>	<b>8.0</b>	<b>0.0</b>	<b>8.0</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x miles/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

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Motor Vehicle Fugitive Particulate Matter Emissions

Vehicle	Number	Road Type	Miles/Day/ Vehicle	PM10 Emission Factor (lb/mi) <sup>a</sup>	PM2.5 Emission Factor (lb/mi) <sup>a</sup>	PM10 Emissions (lb/day) <sup>b</sup>	PM2.5 Emission s (lb/day) <sup>b</sup>
<b>Onsite</b>							
1-Ton Crew Cab, 4x4	2	Unpaved	3	0.495	0.049	2.97	0.30
Water Truck	1	Unpaved	10	0.858	0.086	8.58	0.86
Concrete Mixer Truck	3	Unpaved	3	0.922	0.092	8.30	0.83
Dump Truck	3	Unpaved	3	0.858	0.086	7.72	0.77
Lowboy Truck/Trailer	1	Unpaved	3	0.858	0.086	2.57	0.26
Worker Commute	20	Unpaved	3	0.416	0.042	24.95	2.49
<b>Onsite Total</b>						<b>55.09</b>	<b>5.51</b>
<b>Offsite</b>							
1-Ton Crew Cab, 4x4	2	Paved	50	0.001	0.000	0.09	0.00
Water Truck	1	Paved	25	0.001	0.000	0.02	0.00
Concrete Mixer Truck	3	Paved	25	0.001	0.000	0.06	0.00
Dump Truck	3	Paved	25	0.001	0.000	0.07	0.00
Lowboy Truck/Trailer	1	Paved	25	0.001	0.000	0.02	0.00
Worker Commute	20	Paved	50	0.001	0.000	0.92	0.00
<b>Offsite Total</b>						<b>1.19</b>	<b>0.00</b>
<b>Total</b>						<b>56.28</b>	<b>5.51</b>

<sup>a</sup> From Table 30

<sup>b</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

Earthwork Fugitive Particulate Matter Emissions

Activity	Activity Units	Activity Level	PM10 Emission Factor <sup>a</sup>	PM2.5 Emission Factor <sup>a</sup>	PM10 (lb/day) <sup>b</sup>	PM2.5 (lb/day) <sup>b</sup>
Soil Handling	CY/day	98	2.75E-03	5.72E-04	0.27	0.06
Bulldozing, Scraping and Grading	hr/day	4	1.756	0.365	7.02	1.46
Storage Pile Wind Erosion	acres	0	6.6	1.37	0.00	0.00
<b>Total</b>					<b>7.29</b>	<b>1.52</b>

<sup>a</sup> From Table 31

<sup>b</sup> Emissions [lb/day] = Emission factor [lb/activity unit] x Activity unit [units/day]

**SBCRP - Underground Options Emissions  
Vault Installation Emissions**

**Option D: Emissions Summary**

Source	VOC (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO2e (MT)
Construction Equipment Exhaust	9.57	32.02	77.06	0.12	2.87	2.64	154.0
Onsite Motor Vehicle Exhaust	0.11	0.74	0.69	0.00	0.04	0.03	2.4
Onsite Motor Vehicle Fugitive PM	--	--	--	--	55.09	5.51	
Earthwork Fugitive PM	--	--	--	--	7.32	1.52	
<b>Onsite Total</b>	<b>9.68</b>	<b>32.77</b>	<b>77.76</b>	<b>0.12</b>	<b>65.32</b>	<b>9.70</b>	<b>156.4</b>
Offsite Motor Vehicle Exhaust	1.17	9.07	5.31	0.02	0.32	0.25	25.7
Offsite Motor Vehicle Fugitive PM	--	--	--	--	1.19	0.00	
<b>Offsite Total</b>	<b>1.17</b>	<b>9.07</b>	<b>5.31</b>	<b>0.02</b>	<b>1.51</b>	<b>0.25</b>	<b>25.7</b>
<b>Total</b>	<b>10.85</b>	<b>41.83</b>	<b>83.07</b>	<b>0.14</b>	<b>66.83</b>	<b>9.95</b>	<b>182.1</b>

Assumption: Vault installation for Option D would have a duration of 28 days.

**Construction Equipment Summary**

Equipment	Horse-power	Number	Days Used	Hours Used/Day
Excavator	250	1	28	10
Crane (L)	500	1	28	10
Flat Bed Truck/Trailer	400	3	28	10
Backhoe/Front Loader	125	1	28	10

**Construction Equipment Exhaust Emission Factors**

Equipment	Horse-power	VOC (lb/hr) <sup>a</sup>	CO (lb/hr) <sup>a</sup>	NOX (lb/hr) <sup>a</sup>	SOX (lb/hr) <sup>a</sup>	PM10 (lb/hr) <sup>a</sup>	PM2.5 (lb/hr) <sup>b</sup>	CO2 (lb/hr) <sup>a</sup>	CH4 (lb/hr) <sup>a</sup>
Excavator	250	0.098	0.282	0.909	0.001	0.032	0.029	112.159	0.009
Crane (L)	500	0.147	0.495	1.298	0.002	0.047	0.043	180.101	0.013
Flat Bed Truck/Trailer	400	0.207	0.613	1.595	0.003	0.057	0.052	272.334	0.019
Backhoe/Front Loader	125	0.092	0.586	0.716	0.001	0.038	0.035	101.387	0.008

<sup>a</sup> From Table 27

<sup>b</sup> Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction=

0.920

From Appendix A, Final-Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

[http://www.aqmd.gov/ceqa/handbook/PM2\\_5/PM2\\_5.html](http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html)

**Construction Equipment Daily Criteria Pollutant Exhaust Emissions**

Equipment	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
Excavator	0.98	2.82	9.09	0.01	0.32	0.29
Crane (L)	1.47	4.95	12.98	0.02	0.47	0.43
Flat Bed Truck/Trailer	6.20	18.40	47.84	0.08	1.70	1.57
Backhoe/Front Loader	0.92	5.86	7.16	0.01	0.38	0.35
<b>Total</b>	<b>9.57</b>	<b>32.02</b>	<b>77.06</b>	<b>0.12</b>	<b>2.87</b>	<b>2.64</b>

<sup>a</sup> Emissions [lb/day] = number x hours/day x emission factor [lb/hr]

**Construction Equipment Total Greenhouse Gas Emissions**

Equipment	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
Excavator	14.2	0.0	14.3
Crane (L)	22.9	0.0	22.9
Flat Bed Truck/Trailer	103.8	0.0	103.9
Backhoe/Front Loader	12.9	0.0	12.9
<b>Total</b>	<b>153.8</b>	<b>0.0</b>	<b>154.0</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x hours/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action

Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

**Motor Vehicle Usage**

Vehicle	Number	Days Used	Hours Used/Day	Miles/Day/Veh.
<b>Onsite</b>				
1-Ton Crew Cab, 4x4	2	28	N/A	3
Water Truck	1	28	N/A	10
Concrete Mixer Truck	3	28	N/A	3
Dump Truck	3	28	N/A	3
Lowboy Truck/Trailer	1	28	N/A	3
Worker Commute	20	28	N/A	3
<b>Offsite</b>				
1-Ton Crew Cab, 4x4	2	28	N/A	50
Water Truck	1	28	N/A	25
Concrete Mixer Truck	3	28	N/A	25
Dump Truck	3	28	N/A	25
Lowboy Truck/Trailer	1	28	N/A	25
Worker Commute	20	28	N/A	50

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Vault Installation Emissions

Motor Vehicle Exhaust Emission Factors

Vehicle	Category	VOC (lb/mi) <sup>a</sup>	CO (lb/mi) <sup>a</sup>	NOX (lb/mi) <sup>a</sup>	SOX (lb/mi) <sup>a</sup>	PM10 (lb/mi) <sup>a</sup>	PM2.5 (lb/mi) <sup>b</sup>	CO2 (lb/mi) <sup>a</sup>	CH4 (lb/mi) <sup>a</sup>
<b>Onsite</b>									
1-Ton Crew Cab, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Water Truck	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Concrete Mixer Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Dump Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
<b>Offsite</b>									
1-Ton Crew Cab, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Water Truck	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Concrete Mixer Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Dump Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05

<sup>a</sup> From Table 28 or Table 29

Motor Vehicle Daily Criteria Pollutant Exhaust Emissions

Vehicle	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
<b>Onsite</b>						
1-Ton Crew Cab, 4x4	0.00	0.04	0.00	0.00	0.00	0.00
Water Truck	0.02	0.13	0.14	0.00	0.01	0.00
Concrete Mixer Truck	0.02	0.08	0.22	0.00	0.01	0.01
Dump Truck	0.02	0.08	0.22	0.00	0.01	0.01
Lowboy Truck/Trailer	0.01	0.03	0.07	0.00	0.00	0.00
Worker Commute	0.04	0.40	0.04	0.00	0.01	0.00
<b>Onsite Total</b>	<b>0.11</b>	<b>0.74</b>	<b>0.69</b>	<b>0.00</b>	<b>0.04</b>	<b>0.03</b>
<b>Offsite</b>						
1-Ton Crew Cab, 4x4	0.07	0.66	0.07	0.00	0.01	0.01
Water Truck	0.05	0.32	0.36	0.00	0.01	0.01
Concrete Mixer Truck	0.15	0.63	1.81	0.00	0.09	0.08
Dump Truck	0.15	0.63	1.81	0.00	0.09	0.08
Lowboy Truck/Trailer	0.05	0.21	0.60	0.00	0.03	0.03
Worker Commute	0.70	6.60	0.65	0.01	0.09	0.06
<b>Offsite Total</b>	<b>1.17</b>	<b>9.07</b>	<b>5.31</b>	<b>0.02</b>	<b>0.32</b>	<b>0.25</b>
<b>Total</b>	<b>1.28</b>	<b>9.81</b>	<b>6.00</b>	<b>0.02</b>	<b>0.36</b>	<b>0.28</b>

<sup>a</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

Motor Vehicle Total Greenhouse Gas Emissions

Vehicle	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
<b>Onsite</b>			
1-Ton Crew Cab, 4x4	0.1	0.0	0.1
Water Truck	0.4	0.0	0.4
Concrete Mixer Truck	0.5	0.0	0.5
Dump Truck	0.5	0.0	0.5
Lowboy Truck/Trailer	0.2	0.0	0.2
Worker Commute	0.8	0.0	0.8
<b>Onsite Total</b>	<b>2.4</b>	<b>0.0</b>	<b>2.4</b>
<b>Offsite</b>			
1-Ton Crew Cab, 4x4	1.4	0.0	1.4
Water Truck	0.9	0.0	0.9
Concrete Mixer Truck	4.0	0.0	4.0
Dump Truck	4.0	0.0	4.0
Lowboy Truck/Trailer	1.3	0.0	1.3
Worker Commute	14.0	0.0	14.0
<b>Offsite Total</b>	<b>25.7</b>	<b>0.0</b>	<b>25.7</b>
<b>Total</b>	<b>28.1</b>	<b>0.0</b>	<b>28.1</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x miles/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

SBCRP - Underground Options Emissions  
Vault Installation Emissions

Motor Vehicle Fugitive Particulate Matter Emissions

Vehicle	Number	Road Type	Miles/Day/ Vehicle	PM10 Emission Factor (lb/mi) <sup>a</sup>	PM2.5 Emission Factor (lb/mi) <sup>a</sup>	PM10 Emissions (lb/day) <sup>b</sup>	PM2.5 Emission s (lb/day) <sup>b</sup>
<b>Onsite</b>							
1-Ton Crew Cab, 4x4	2	Unpaved	3	0.495	0.049	2.97	0.30
Water Truck	1	Unpaved	10	0.858	0.086	8.58	0.86
Concrete Mixer Truck	3	Unpaved	3	0.922	0.092	8.30	0.83
Dump Truck	3	Unpaved	3	0.858	0.086	7.72	0.77
Lowboy Truck/Trailer	1	Unpaved	3	0.858	0.086	2.57	0.26
Worker Commute	20	Unpaved	3	0.416	0.042	24.95	2.49
<b>Onsite Total</b>						<b>55.09</b>	<b>5.51</b>
<b>Offsite</b>							
1-Ton Crew Cab, 4x4	2	Paved	50	0.001	0.000	0.09	0.00
Water Truck	1	Paved	25	0.001	0.000	0.02	0.00
Concrete Mixer Truck	3	Paved	25	0.001	0.000	0.06	0.00
Dump Truck	3	Paved	25	0.001	0.000	0.07	0.00
Lowboy Truck/Trailer	1	Paved	25	0.001	0.000	0.02	0.00
Worker Commute	20	Paved	50	0.001	0.000	0.92	0.00
<b>Offsite Total</b>						<b>1.19</b>	<b>0.00</b>
<b>Total</b>						<b>56.28</b>	<b>5.51</b>

<sup>a</sup> From Table 30

<sup>b</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

Earthwork Fugitive Particulate Matter Emissions

Activity	Activity Units	Activity Level	PM10 Emission Factor <sup>a</sup>	PM2.5 Emission Factor <sup>a</sup>	PM10 (lb/day) <sup>b</sup>	PM2.5 (lb/day) <sup>b</sup>
Soil Handling	CY/day	108	2.75E-03	5.72E-04	0.30	0.06
Bulldozing, Scraping and Grading	hr/day	4	1.756	0.365	7.02	1.46
Storage Pile Wind Erosion	acres	0	6.6	1.37	0.00	0.00
<b>Total</b>					<b>7.32</b>	<b>1.52</b>

<sup>a</sup> From Table 31

<sup>b</sup> Emissions [lb/day] = Emission factor [lb/activity unit] x Activity unit [units/day]

**SBCRP - Underground  
Options Emissions  
Excavation Emissions  
Estimation**

Undergrounding Alternatives	Trenching Dimensions			Excavation Volume Estimation			
	Length (ft)	Width (ft)	Depth (ft)	Volume (cf)	Volume (cy)	Duration (days)	CY/day
Option C	4687	1.5	3	21091.5	781	8	98
Option D	18169	1.5	3	81760.5	3028	28	108

Cubic foot to cubic yard factor 0.037037

**Assumptions:**

Option C would involve installation of 2 vaults along a 0.89-mile length and a total duration of 8 days

Option D would involve installation of 6 vaults along a 3.4-length and a total duration of 24 days.

**Option C: Earthwork Fugitive Particulate Matter Emissions**

Activity	Activity Units	Activity Level	PM10 Emission Factor <sup>a</sup>	PM2.5 Emission Factor <sup>a</sup>	PM10 (lb/day) <sup>b</sup>	PM2.5 (lb/day) <sup>b</sup>
Soil Handling <sup>c</sup>	CY/day	98	2.75E-03	5.72E-04	0.27	0.06
Bulldozing, Scraping and Grading	hr/day	4	1.756	0.365	7.02	1.46
Storage Pile Wind Erosion	acres		6.6	1.37	0.00	0.00
<b>Total</b>					<b>7.29</b>	<b>1.52</b>

<sup>a</sup> From Table 31

<sup>b</sup> Emissions [lb/day] = Emission factor [lb/activity unit] x Activity unit [units/day]

<sup>c</sup> Peak daily estimated of 98 CY per day

**Option D: Earthwork Fugitive Particulate Matter Emissions**

Activity	Activity Units	Activity Level	PM10 Emission Factor <sup>a</sup>	PM2.5 Emission Factor <sup>a</sup>	PM10 (lb/day) <sup>b</sup>	PM2.5 (lb/day) <sup>b</sup>
Soil Handling <sup>c</sup>	CY/day	108	2.75E-03	5.72E-04	0.30	0.06
Bulldozing, Scraping and Grading	hr/day	4	1.756	0.365	7.02	1.46
Storage Pile Wind Erosion	acres		6.6	1.37	0.00	0.00
<b>Total</b>					<b>7.32</b>	<b>1.52</b>

<sup>a</sup> From Table 31

<sup>b</sup> Emissions [lb/day] = Emission factor [lb/activity unit] x Activity unit [units/day]

<sup>c</sup> Peak daily estimated of 108 CY per day

**SBCRP - Underground Options Emissions  
Duct Bank Installation**

**Option C: Emissions Summary**

Source	VOC (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO2e (MT)
Construction Equipment Exhaust	1.68	9.07	11.84	0.02	0.80	0.73	1.3
Onsite Motor Vehicle Exhaust	0.12	0.79	0.84	0.00	0.04	0.04	0.2
Onsite Motor Vehicle Fugitive PM	--	--	--	--	60.24	6.02	
Earthwork Fugitive PM	--	--	--	--	0.00	0.00	
<b>Onsite Total</b>	<b>1.80</b>	<b>9.87</b>	<b>12.68</b>	<b>0.02</b>	<b>61.08</b>	<b>6.79</b>	<b>1.5</b>
Offsite Motor Vehicle Exhaust	1.27	9.49	6.52	0.02	0.38	0.30	2.0
Offsite Motor Vehicle Fugitive PM	--	--	--	--	1.24	0.00	
<b>Offsite Total</b>	<b>1.27</b>	<b>9.49</b>	<b>6.52</b>	<b>0.02</b>	<b>1.62</b>	<b>0.30</b>	<b>2.0</b>
<b>Total</b>	<b>3.08</b>	<b>19.35</b>	<b>19.20</b>	<b>0.04</b>	<b>62.69</b>	<b>7.09</b>	<b>3.6</b>

Assumption: Duct Bank Installation for Option C would have a total duration of 2 days.

**Construction Equipment Summary**

Equipment	Horse-power	Number	Days Used	Hours Used/Day
Backhoe/Front Loader	125	1	2	10
Compressor Trailer	60	1	2	10

**Construction Equipment Exhaust Emission Factors**

Equipment	Horse-power	VOC (lb/hr) <sup>a</sup>	CO (lb/hr) <sup>a</sup>	NOX (lb/hr) <sup>a</sup>	SOX (lb/hr) <sup>a</sup>	PM10 (lb/hr) <sup>a</sup>	PM2.5 (lb/hr) <sup>b</sup>	CO2 (lb/hr) <sup>a</sup>	CH4 (lb/hr) <sup>a</sup>
Backhoe/Front Loader	125	0.092	0.586	0.716	0.001	0.038	0.035	101.387	0.008
Compressor Trailer	60	0.076	0.322	0.468	0.001	0.042	0.038	46.950	0.007

<sup>a</sup> From Table 27

<sup>b</sup> Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction = 0.920

From Appendix A, Final--Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

[http://www.aqmd.gov/ceqa/handbook/PM2\\_5/PM2\\_5.html](http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html)

**Construction Equipment Daily Criteria Pollutant Exhaust Emissions**

Equipment	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
Backhoe/Front Loader	0.92	5.86	7.16	0.01	0.38	0.35
Compressor Trailer	0.76	3.22	4.68	0.01	0.42	0.38
<b>Total</b>	<b>1.68</b>	<b>9.07</b>	<b>11.84</b>	<b>0.02</b>	<b>0.80</b>	<b>0.73</b>

<sup>a</sup> Emissions [lb/day] = number x hours/day x emission factor [lb/hr]

**Construction Equipment Total Greenhouse Gas Emissions**

Equipment	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
Backhoe/Front Loader	0.9	0.0	0.9
Compressor Trailer	0.4	0.0	0.4
<b>Total</b>	<b>1.3</b>	<b>0.0</b>	<b>1.3</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x hours/day x Number x

days used x 453.6 [g/lb] / 1,000,000 [g/MT]

Emission factors are in Table 27

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action

Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

**Motor Vehicle Usage**

Vehicle	Number	Days Used	Hours Used/Day	Miles/Day/Veh.
<b>Onsite</b>				
Lowboy Truck/Trailer	1	2	N/A	3
1-Ton Truck, 4x4	2	2	N/A	3
Water Truck	1	2	N/A	10
Pipe Truck/Trailer	1	2	N/A	3
Concrete Mixer Truck	3	2	N/A	3
Dump Truck	3	2	N/A	3
Lowboy Truck/Trailer	1	2	N/A	3
Worker Commute	20	2	N/A	3
<b>Offsite</b>				
Lowboy Truck/Trailer	1	2	N/A	25
1-Ton Truck, 4x4	2	2	N/A	50
Water Truck	1	2	N/A	25
Pipe Truck/Trailer	1	2	N/A	25
Concrete Mixer Truck	3	2	N/A	25
Dump Truck	3	2	N/A	25
Lowboy Truck/Trailer	1	2	N/A	25
Worker Commute	20	2	N/A	50



SBCRP - Underground Options Emissions  
Duct Bank Installation

Motor Vehicle Exhaust Emission Factors

Vehicle	Category	VOC (lb/mi) <sup>a</sup>	CO (lb/mi) <sup>a</sup>	NOX (lb/mi) <sup>a</sup>	SOX (lb/mi) <sup>a</sup>	PM10 (lb/mi) <sup>a</sup>	PM2.5 (lb/mi) <sup>b</sup>	CO2 (lb/mi) <sup>a</sup>	CH4 (lb/mi) <sup>a</sup>
<b>Onsite</b>									
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
1-Ton Truck, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Water Truck	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Pipe Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Concrete Mixer Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Dump Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
<b>Offsite</b>									
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
1-Ton Truck, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Water Truck	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Pipe Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Concrete Mixer Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Dump Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05

a From Table 28 or Table 29

Motor Vehicle Daily Criteria Pollutant Exhaust Emissions

Vehicle	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
<b>Onsite</b>						
Lowboy Truck/Trailer	0.01	0.03	0.07	0.00	0.00	0.00
1-Ton Truck, 4x4	0.00	0.04	0.00	0.00	0.00	0.00
Water Truck	0.02	0.13	0.14	0.00	0.01	0.00
Pipe Truck/Trailer	0.01	0.03	0.07	0.00	0.00	0.00
Concrete Mixer Truck	0.02	0.08	0.22	0.00	0.01	0.01
Dump Truck	0.02	0.08	0.22	0.00	0.01	0.01
Lowboy Truck/Trailer	0.01	0.03	0.07	0.00	0.00	0.00
Worker Commute	0.04	0.40	0.04	0.00	0.01	0.00
<b>Onsite Total</b>	<b>0.12</b>	<b>0.79</b>	<b>0.84</b>	<b>0.00</b>	<b>0.04</b>	<b>0.04</b>
<b>Offsite</b>						
Lowboy Truck/Trailer	0.05	0.21	0.60	0.00	0.03	0.03
1-Ton Truck, 4x4	0.07	0.66	0.07	0.00	0.01	0.01
Water Truck	0.05	0.32	0.36	0.00	0.01	0.01
Pipe Truck/Trailer	0.05	0.21	0.60	0.00	0.03	0.03
Concrete Mixer Truck	0.15	0.63	1.81	0.00	0.09	0.08
Dump Truck	0.15	0.63	1.81	0.00	0.09	0.08
Lowboy Truck/Trailer	0.05	0.21	0.60	0.00	0.03	0.03
Worker Commute	0.70	6.60	0.65	0.01	0.09	0.06
<b>Offsite Total</b>	<b>1.27</b>	<b>9.49</b>	<b>6.52</b>	<b>0.02</b>	<b>0.38</b>	<b>0.30</b>
<b>Total</b>	<b>1.39</b>	<b>10.28</b>	<b>7.36</b>	<b>0.02</b>	<b>0.42</b>	<b>0.34</b>

<sup>a</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

Motor Vehicle Total Greenhouse Gas Emissions

Vehicle	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
<b>Onsite</b>			
Lowboy Truck/Trailer	0.0	0.0	0.0
1-Ton Truck, 4x4	0.0	0.0	0.0
Water Truck	0.0	0.0	0.0
Pipe Truck/Trailer	0.0	0.0	0.0
Concrete Mixer Truck	0.0	0.0	0.0
Dump Truck	0.0	0.0	0.0
Lowboy Truck/Trailer	0.0	0.0	0.0
Worker Commute	0.1	0.0	0.1
<b>Onsite Total</b>	<b>0.2</b>	<b>0.0</b>	<b>0.2</b>
<b>Offsite</b>			
Lowboy Truck/Trailer	0.1	0.0	0.1
1-Ton Truck, 4x4	0.1	0.0	0.1
Water Truck	0.1	0.0	0.1
Pipe Truck/Trailer	0.1	0.0	0.1
Concrete Mixer Truck	0.3	0.0	0.3
Dump Truck	0.3	0.0	0.3
Lowboy Truck/Trailer	0.1	0.0	0.1
Worker Commute	1.0	0.0	1.0
<b>Offsite Total</b>	<b>2.0</b>	<b>0.0</b>	<b>2.0</b>
<b>Total</b>	<b>2.2</b>	<b>0.0</b>	<b>2.2</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x miles/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]  
Emission factors are in Table 28 and Table 29

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

Motor Vehicle Fugitive Particulate Matter Emissions

**SBCRP - Underground Options Emissions  
Duct Bank Installation**

Vehicle	Number	Road Type	Miles/ Day/ Vehicle	PM10 Emission Factor (lb/mi) <sup>a</sup>	PM2.5 Emission Factor (lb/mi) <sup>a</sup>	PM10 Emissions (lb/day) <sup>b</sup>	PM2.5 Emission s (lb/day) <sup>b</sup>
<b>Onsite</b>							
Lowboy Truck/Trailer	1	Unpaved	3	0.858	0.086	2.57	0.26
1-Ton Truck, 4x4	2	Unpaved	3	0.495	0.049	2.97	0.30
Water Truck	1	Unpaved	10	0.858	0.086	8.58	0.86
Pipe Truck/Trailer	1	Unpaved	3	0.858	0.086	2.57	0.26
Concrete Mixer Truck	3	Unpaved	3	0.922	0.092	8.30	0.83
Dump Truck	3	Unpaved	3	0.858	0.086	7.72	0.77
Lowboy Truck/Trailer	1	Unpaved	3	0.858	0.086	2.57	0.26
Worker Commute	20	Unpaved	3	0.416	0.042	24.95	2.49
<b>Onsite Total</b>						<b>60.24</b>	<b>6.02</b>
<b>Offsite</b>							
Lowboy Truck/Trailer	1	Paved	25	0.001	0.000	0.02	0.00
1-Ton Truck, 4x4	2	Paved	50	0.001	0.000	0.09	0.00
Water Truck	1	Paved	25	0.001	0.000	0.02	0.00
Pipe Truck/Trailer	1	Paved	25	0.001	0.000	0.02	0.00
Concrete Mixer Truck	3	Paved	25	0.001	0.000	0.06	0.00
Dump Truck	3	Paved	25	0.001	0.000	0.07	0.00
Lowboy Truck/Trailer	1	Paved	25	0.001	0.000	0.02	0.00
Worker Commute	20	Paved	50	0.001	0.000	0.92	0.00
<b>Offsite Total</b>						<b>1.24</b>	<b>0.00</b>
<b>Total</b>						<b>61.47</b>	<b>6.02</b>

<sup>a</sup> From Table 30

<sup>b</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

**SBCRP - Underground Options Emissions  
Duct Bank Installation**

**Option D: Emissions Summary**

Source	VOC (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO2e (MT)
Construction Equipment Exhaust	1.68	9.07	11.84	0.02	0.80	0.73	28.5
Onsite Motor Vehicle Exhaust	0.12	0.79	0.84	0.00	0.04	0.04	4.2
Onsite Motor Vehicle Fugitive PM	--	--	--	--	60.24	6.02	
Earthwork Fugitive PM	--	--	--	--	0.00	0.00	
<b>Onsite Total</b>	<b>1.80</b>	<b>9.87</b>	<b>12.68</b>	<b>0.02</b>	<b>61.08</b>	<b>6.79</b>	<b>32.7</b>
Offsite Motor Vehicle Exhaust	1.27	9.49	6.52	0.02	0.38	0.30	43.5
Offsite Motor Vehicle Fugitive PM	--	--	--	--	1.24	0.00	
<b>Offsite Total</b>	<b>1.27</b>	<b>9.49</b>	<b>6.52</b>	<b>0.02</b>	<b>1.62</b>	<b>0.30</b>	<b>43.5</b>
<b>Total</b>	<b>3.08</b>	<b>19.35</b>	<b>19.20</b>	<b>0.04</b>	<b>62.69</b>	<b>7.09</b>	<b>76.3</b>

Assumption: Duct Bank Installation for Option D would have a total duration of 43 days.

**Construction Equipment Summary**

Equipment	Horse-power	Number	Days Used	Hours Used/Day
Backhoe/Front Loader	125	1	42	10
Compressor Trailer	60	1	43	10

**Construction Equipment Exhaust Emission Factors**

Equipment	Horse-power	VOC (lb/hr) <sup>a</sup>	CO (lb/hr) <sup>a</sup>	NOX (lb/hr) <sup>a</sup>	SOX (lb/hr) <sup>a</sup>	PM10 (lb/hr) <sup>a</sup>	PM2.5 (lb/hr) <sup>b</sup>	CO2 (lb/hr) <sup>a</sup>	CH4 (lb/hr) <sup>a</sup>
Backhoe/Front Loader	125	0.092	0.586	0.716	0.001	0.038	0.035	101.387	0.008
Compressor Trailer	60	0.076	0.322	0.468	0.001	0.042	0.038	46.950	0.007

<sup>a</sup> From Table 27

<sup>b</sup> Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction = 0.920

From Appendix A, Final-Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

[http://www.aqmd.gov/ceqa/handbook/PM2\\_5/PM2\\_5.html](http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html)

**Construction Equipment Daily Criteria Pollutant Exhaust Emissions**

Equipment	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
Backhoe/Front Loader	0.92	5.86	7.16	0.01	0.38	0.35
Compressor Trailer	0.76	3.22	4.68	0.01	0.42	0.38
<b>Total</b>	<b>1.68</b>	<b>9.07</b>	<b>11.84</b>	<b>0.02</b>	<b>0.80</b>	<b>0.73</b>

<sup>a</sup> Emissions [lb/day] = number x hours/day x emission factor [lb/hr]

**Construction Equipment Total Greenhouse Gas Emissions**

Equipment	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
Backhoe/Front Loader	19.3	0.0	19.3
Compressor Trailer	9.2	0.0	9.2
<b>Total</b>	<b>28.5</b>	<b>0.0</b>	<b>28.5</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x hours/day x Number x

days used x 453.6 [g/lb] / 1,000,000 [g/MT]

Emission factors are in Table 27

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action

Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

**Motor Vehicle Usage**

Vehicle	Number	Days Used	Hours Used/Day	Miles/Day/Veh.
<b>Onsite</b>				
Lowboy Truck/Trailer	1	43	N/A	3
1-Ton Truck, 4x4	2	43	N/A	3
Water Truck	1	43	N/A	10
Pipe Truck/Trailer	1	43	N/A	3
Concrete Mixer Truck	3	43	N/A	3
Dump Truck	3	43	N/A	3
Lowboy Truck/Trailer	1	43	N/A	3
Worker Commute	20	43	N/A	3
<b>Offsite</b>				
Lowboy Truck/Trailer	1	43	N/A	25
1-Ton Truck, 4x4	2	43	N/A	50
Water Truck	1	43	N/A	25
Pipe Truck/Trailer	1	43	N/A	25
Concrete Mixer Truck	3	43	N/A	25
Dump Truck	3	43	N/A	25
Lowboy Truck/Trailer	1	43	N/A	25
Worker Commute	20	43	N/A	50

SBCRP - Underground Options Emissions  
Duct Bank Installation

Motor Vehicle Exhaust Emission Factors

Vehicle	Category	VOC (lb/mi) <sup>a</sup>	CO (lb/mi) <sup>a</sup>	NOX (lb/mi) <sup>a</sup>	SOX (lb/mi) <sup>a</sup>	PM10 (lb/mi) <sup>a</sup>	PM2.5 (lb/mi) <sup>b</sup>	CO2 (lb/mi) <sup>a</sup>	CH4 (lb/mi) <sup>a</sup>
<b>Onsite</b>									
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
1-Ton Truck, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Water Truck	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Pipe Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Concrete Mixer Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Dump Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
<b>Offsite</b>									
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
1-Ton Truck, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Water Truck	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Pipe Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Concrete Mixer Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Dump Truck	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05

a From Table 28 or Table 29

Motor Vehicle Daily Criteria Pollutant Exhaust Emissions

Vehicle	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
<b>Onsite</b>						
Lowboy Truck/Trailer	0.01	0.03	0.07	0.00	0.00	0.00
1-Ton Truck, 4x4	0.00	0.04	0.00	0.00	0.00	0.00
Water Truck	0.02	0.13	0.14	0.00	0.01	0.00
Pipe Truck/Trailer	0.01	0.03	0.07	0.00	0.00	0.00
Concrete Mixer Truck	0.02	0.08	0.22	0.00	0.01	0.01
Dump Truck	0.02	0.08	0.22	0.00	0.01	0.01
Lowboy Truck/Trailer	0.01	0.03	0.07	0.00	0.00	0.00
Worker Commute	0.04	0.40	0.04	0.00	0.01	0.00
<b>Onsite Total</b>	<b>0.12</b>	<b>0.79</b>	<b>0.84</b>	<b>0.00</b>	<b>0.04</b>	<b>0.04</b>
<b>Offsite</b>						
Lowboy Truck/Trailer	0.05	0.21	0.60	0.00	0.03	0.03
1-Ton Truck, 4x4	0.07	0.66	0.07	0.00	0.01	0.01
Water Truck	0.05	0.32	0.36	0.00	0.01	0.01
Pipe Truck/Trailer	0.05	0.21	0.60	0.00	0.03	0.03
Concrete Mixer Truck	0.15	0.63	1.81	0.00	0.09	0.08
Dump Truck	0.15	0.63	1.81	0.00	0.09	0.08
Lowboy Truck/Trailer	0.05	0.21	0.60	0.00	0.03	0.03
Worker Commute	0.70	6.60	0.65	0.01	0.09	0.06
<b>Offsite Total</b>	<b>1.27</b>	<b>9.49</b>	<b>6.52</b>	<b>0.02</b>	<b>0.38</b>	<b>0.30</b>
<b>Total</b>	<b>1.39</b>	<b>10.28</b>	<b>7.36</b>	<b>0.02</b>	<b>0.42</b>	<b>0.34</b>

<sup>a</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

Motor Vehicle Total Greenhouse Gas Emissions

Vehicle	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
<b>Onsite</b>			
Lowboy Truck/Trailer	0.2	0.0	0.2
1-Ton Truck, 4x4	0.1	0.0	0.1
Water Truck	0.5	0.0	0.5
Pipe Truck/Trailer	0.2	0.0	0.2
Concrete Mixer Truck	0.7	0.0	0.7
Dump Truck	0.7	0.0	0.7
Lowboy Truck/Trailer	0.2	0.0	0.2
Worker Commute	1.3	0.0	1.3
<b>Onsite Total</b>	<b>4.2</b>	<b>0.0</b>	<b>4.2</b>
<b>Offsite</b>			
Lowboy Truck/Trailer	2.1	0.0	2.1
1-Ton Truck, 4x4	2.2	0.0	2.2
Water Truck	1.4	0.0	1.4
Pipe Truck/Trailer	2.1	0.0	2.1
Concrete Mixer Truck	6.2	0.0	6.2
Dump Truck	6.2	0.0	6.2
Lowboy Truck/Trailer	2.1	0.0	2.1
Worker Commute	21.5	0.0	21.5
<b>Offsite Total</b>	<b>43.5</b>	<b>0.0</b>	<b>43.5</b>
<b>Total</b>	<b>47.7</b>	<b>0.0</b>	<b>47.7</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x miles/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]  
Emission factors are in Table 28 and Table 29

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

Motor Vehicle Fugitive Particulate Matter Emissions

**SBCRP - Underground Options Emissions  
Duct Bank Installation**

Vehicle	Number	Road Type	Miles/ Day/ Vehicle	PM10 Emission Factor (lb/mi) <sup>a</sup>	PM2.5 Emission Factor (lb/mi) <sup>a</sup>	PM10 Emissions (lb/day) <sup>b</sup>	PM2.5 Emission s (lb/day) <sup>b</sup>
<b>Onsite</b>							
Lowboy Truck/Trailer	1	Unpaved	3	0.858	0.086	2.57	0.26
1-Ton Truck, 4x4	2	Unpaved	3	0.495	0.049	2.97	0.30
Water Truck	1	Unpaved	10	0.858	0.086	8.58	0.86
Pipe Truck/Trailer	1	Unpaved	3	0.858	0.086	2.57	0.26
Concrete Mixer Truck	3	Unpaved	3	0.922	0.092	8.30	0.83
Dump Truck	3	Unpaved	3	0.858	0.086	7.72	0.77
Lowboy Truck/Trailer	1	Unpaved	3	0.858	0.086	2.57	0.26
Worker Commute	20	Unpaved	3	0.416	0.042	24.95	2.49
<b>Onsite Total</b>						<b>60.24</b>	<b>6.02</b>
<b>Offsite</b>							
Lowboy Truck/Trailer	1	Paved	25	0.001	0.000	0.02	0.00
1-Ton Truck, 4x4	2	Paved	50	0.001	0.000	0.09	0.00
Water Truck	1	Paved	25	0.001	0.000	0.02	0.00
Pipe Truck/Trailer	1	Paved	25	0.001	0.000	0.02	0.00
Concrete Mixer Truck	3	Paved	25	0.001	0.000	0.06	0.00
Dump Truck	3	Paved	25	0.001	0.000	0.07	0.00
Lowboy Truck/Trailer	1	Paved	25	0.001	0.000	0.02	0.00
Worker Commute	20	Paved	50	0.001	0.000	0.92	0.00
<b>Offsite Total</b>						<b>1.24</b>	<b>0.00</b>
<b>Total</b>						<b>61.47</b>	<b>6.02</b>

<sup>a</sup> From Table 30

<sup>b</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

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Option C: Emissions Summary

Source	VOC (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO2e (MT)
Construction Equipment Exhaust	10.71	32.30	85.85	0.14	3.06	2.81	50.2
Onsite Motor Vehicle Exhaust	0.05	0.44	0.04	0.00	0.01	0.00	0.0
Onsite Motor Vehicle Fugitive PM	--	--	--	--	0.06	0.00	
Earthwork Fugitive PM	--	--	--	--	0.00	0.00	
<b>Onsite Total</b>	<b>10.76</b>	<b>32.74</b>	<b>85.89</b>	<b>0.14</b>	<b>3.12</b>	<b>2.81</b>	<b>50.2</b>
Offsite Motor Vehicle Exhaust	0.77	7.26	0.72	0.01	0.10	0.07	4.4
Offsite Motor Vehicle Fugitive PM	--	--	--	--	1.01	0.00	
<b>Offsite Total</b>	<b>0.77</b>	<b>7.26</b>	<b>0.72</b>	<b>0.01</b>	<b>1.12</b>	<b>0.07</b>	<b>4.4</b>
<b>Total</b>	<b>11.53</b>	<b>40.00</b>	<b>86.61</b>	<b>0.15</b>	<b>4.24</b>	<b>2.88</b>	<b>54.6</b>

Construction Equipment Summary

Equipment	Horse-power	Number	Days Used	Hours Used/Day
Boom/Crane Truck	350	1	8	10
Wire Truck	350	2	8	10
Manlift/Bucket Truck	250	1	8	10
Puller	350	1	8	10
Static Truck/Tensioner	350	1	8	10

Construction Equipment Exhaust Emission Factors

Equipment	Horse-power	VOC (lb/hr) <sup>a</sup>	CO (lb/hr) <sup>a</sup>	NOX (lb/hr) <sup>a</sup>	SOX (lb/hr) <sup>a</sup>	PM10 (lb/hr) <sup>a</sup>	PM2.5 (lb/hr) <sup>b</sup>	CO2 (lb/hr) <sup>a</sup>	CH4 (lb/hr) <sup>a</sup>
Boom/Crane Truck	350	0.147	0.495	1.298	0.002	0.047	0.043	180.101	0.013
Wire Truck	350	0.207	0.613	1.595	0.003	0.057	0.052	272.334	0.019
Manlift/Bucket Truck	250	0.098	0.282	0.909	0.001	0.032	0.029	112.159	0.009
Puller	350	0.207	0.613	1.595	0.003	0.057	0.052	272.334	0.019
Static Truck/Tensioner	350	0.207	0.613	1.595	0.003	0.057	0.052	272.334	0.019

<sup>a</sup> From Table 27

<sup>b</sup> Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction= 0.920

From Appendix A, Final-Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

[http://www.aqmd.gov/ceqa/handbook/PM2\\_5/PM2\\_5.html](http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html)

Construction Equipment Daily Criteria Pollutant Exhaust Emissions

Equipment	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
Boom/Crane Truck	1.47	4.95	12.98	0.02	0.47	0.43
Wire Truck	4.13	12.27	31.89	0.05	1.13	1.04
Manlift/Bucket Truck	0.98	2.82	9.09	0.01	0.32	0.29
Puller	2.07	6.13	15.95	0.03	0.57	0.52
Static Truck/Tensioner	2.07	6.13	15.95	0.03	0.57	0.52
<b>Total</b>	<b>10.71</b>	<b>32.30</b>	<b>85.85</b>	<b>0.14</b>	<b>3.06</b>	<b>2.81</b>

<sup>a</sup> Emissions [lb/day] = number x hours/day x emission factor [lb/hr]

Construction Equipment Total Greenhouse Gas Emissions

Equipment	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
Boom/Crane Truck	6.5	0.0	6.5
Wire Truck	19.8	0.0	19.8
Manlift/Bucket Truck	4.1	0.0	4.1
Puller	9.9	0.0	9.9
Static Truck/Tensioner	9.9	0.0	9.9
<b>Total</b>	<b>50.1</b>	<b>0.0</b>	<b>50.2</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x hours/day x Number x

days used x 453.6 [g/lb] / 1,000,000 [g/MT]

Emission factors are in Table 27

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action

Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

Motor Vehicle Usage

Vehicle	Number	Days Used	Hours Used/Day	Miles/Day/Veh.
<b>Onsite</b>				
1-Ton Truck, 4x4	2	8	N/A	3
Worker Commute	20	8	N/A	3
<b>Offsite</b>				
1-Ton Truck, 4x4	2	8	N/A	50
Worker Commute	20	8	N/A	50

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 Install Underground Cable

Motor Vehicle Exhaust Emission Factors

Vehicle	Category	VOC (lb/mi) <sup>a</sup>	CO (lb/mi) <sup>a</sup>	NOX (lb/mi) <sup>a</sup>	SOX (lb/mi) <sup>a</sup>	PM10 (lb/mi) <sup>a</sup>	PM2.5 (lb/mi) <sup>b</sup>	CO2 (lb/mi) <sup>a</sup>	CH4 (lb/mi) <sup>a</sup>
<b>Onsite</b>									
1-Ton Truck, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
<b>Offsite</b>									
1-Ton Truck, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05

a From Table 28 or Table 29

SBCRP - Underground Options Emissions  
Install Underground Cable

**Motor Vehicle Daily Criteria Pollutant Exhaust Emissions**

Vehicle	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
<b>Onsite</b>						
1-Ton Truck, 4x4	0.00	0.04	0.00	0.00	0.00	0.00
Worker Commute	0.04	0.40	0.04	0.00	0.01	0.00
<b>Onsite Total</b>	<b>0.05</b>	<b>0.44</b>	<b>0.04</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>
<b>Offsite</b>						
1-Ton Truck, 4x4	0.07	0.66	0.07	0.00	0.01	0.01
Worker Commute	0.70	6.60	0.65	0.01	0.09	0.06
<b>Offsite Total</b>	<b>0.77</b>	<b>7.26</b>	<b>0.72</b>	<b>0.01</b>	<b>0.10</b>	<b>0.07</b>
<b>Total</b>	<b>0.82</b>	<b>7.70</b>	<b>0.76</b>	<b>0.01</b>	<b>0.11</b>	<b>0.07</b>

<sup>a</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

**Motor Vehicle Total Greenhouse Gas Emissions**

Vehicle	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
<b>Onsite</b>			
1-Ton Truck, 4x4	0.0	0.0	0.0
Worker Commute	0.0	0.0	0.0
<b>Onsite Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Offsite</b>			
1-Ton Truck, 4x4	0.4	0.0	0.4
Worker Commute	4.0	0.0	4.0
<b>Offsite Total</b>	<b>4.4</b>	<b>0.0</b>	<b>4.4</b>
<b>Total</b>	<b>4.4</b>	<b>0.0</b>	<b>4.4</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x miles/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]

Emission factors are in Table 28 and Table 29

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

**Motor Vehicle Fugitive Particulate Matter Emissions**

Vehicle	Number	Road Type	Miles/ Day/ Vehicle	PM10 Emission Factor (lb/mi) <sup>a</sup>	PM2.5 Emission Factor (lb/mi) <sup>a</sup>	PM10 Emissions (lb/day) <sup>b</sup>	PM2.5 Emissions (lb/day) <sup>b</sup>
<b>Onsite</b>							
1-Ton Truck, 4x4	2	Paved	3	0.001	0.000	0.01	0.00
Worker Commute	20	Paved	3	0.001	0.000	0.06	0.00
<b>Onsite Total</b>						<b>0.06</b>	<b>0.00</b>
<b>Offsite</b>							
1-Ton Truck, 4x4	2	Paved	50	0.001	0.000	0.09	0.00
Worker Commute	20	Paved	50	0.001	0.000	0.92	0.00
<b>Offsite Total</b>						<b>1.01</b>	<b>0.00</b>
<b>Total</b>						<b>1.08</b>	<b>0.00</b>

<sup>a</sup> From Table 30

<sup>b</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]



**SBCRP - Underground Options Emissions  
Install Underground Cable**

**Option D: Emissions Summary**

Source	VOC (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO2e (MT)
Construction Equipment Exhaust	10.71	32.30	85.85	0.14	3.06	2.81	50.2
Onsite Motor Vehicle Exhaust	0.05	0.44	0.04	0.00	0.01	0.00	0.0
Onsite Motor Vehicle Fugitive PM	--	--	--	--	0.06	0.00	
Earthwork Fugitive PM	--	--	--	--	0.00	0.00	
<b>Onsite Total</b>	<b>10.76</b>	<b>32.74</b>	<b>85.89</b>	<b>0.14</b>	<b>3.12</b>	<b>2.81</b>	<b>50.2</b>
Offsite Motor Vehicle Exhaust	0.77	7.26	0.72	0.01	0.10	0.07	4.4
Offsite Motor Vehicle Fugitive PM	--	--	--	--	1.01	0.00	
<b>Offsite Total</b>	<b>0.77</b>	<b>7.26</b>	<b>0.72</b>	<b>0.01</b>	<b>1.12</b>	<b>0.07</b>	<b>4.4</b>
<b>Total</b>	<b>11.53</b>	<b>40.00</b>	<b>86.61</b>	<b>0.15</b>	<b>4.24</b>	<b>2.88</b>	<b>54.6</b>

Assumption: Installing Underground Cable for Option D would have a total duration of 8 day

**Construction Equipment Summary**

Equipment	Horse-power	Number	Days Used	Hours Used/Day
Boom/Crane Truck	350	1	8	10
Wire Truck	350	2	8	10
Manlift/Bucket Truck	250	1	8	10
Puller	350	1	8	10
Static Truck/Tensioner	350	1	8	10

**Construction Equipment Exhaust Emission Factors**

Equipment	Horse-power	VOC (lb/hr) <sup>a</sup>	CO (lb/hr) <sup>a</sup>	NOX (lb/hr) <sup>a</sup>	SOX (lb/hr) <sup>a</sup>	PM10 (lb/hr) <sup>a</sup>	PM2.5 (lb/hr) <sup>b</sup>	CO2 (lb/hr) <sup>a</sup>	CH4 (lb/hr) <sup>a</sup>
Boom/Crane Truck	350	0.147	0.495	1.298	0.002	0.047	0.043	180.101	0.013
Wire Truck	350	0.207	0.613	1.595	0.003	0.057	0.052	272.334	0.019
Manlift/Bucket Truck	250	0.098	0.282	0.909	0.001	0.032	0.029	112.159	0.009
Puller	350	0.207	0.613	1.595	0.003	0.057	0.052	272.334	0.019
Static Truck/Tensioner	350	0.207	0.613	1.595	0.003	0.057	0.052	272.334	0.019

<sup>a</sup> From Table 27

<sup>b</sup> Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction= 0.920

From Appendix A, Final-Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

[http://www.aqmd.gov/ceqa/handbook/PM2\\_5/PM2\\_5.html](http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html)

**Construction Equipment Daily Criteria Pollutant Exhaust Emissions**

Equipment	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
Boom/Crane Truck	1.47	4.95	12.98	0.02	0.47	0.43
Wire Truck	4.13	12.27	31.89	0.05	1.13	1.04
Manlift/Bucket Truck	0.98	2.82	9.09	0.01	0.32	0.29
Puller	2.07	6.13	15.95	0.03	0.57	0.52
Static Truck/Tensioner	2.07	6.13	15.95	0.03	0.57	0.52
<b>Total</b>	<b>10.71</b>	<b>32.30</b>	<b>85.85</b>	<b>0.14</b>	<b>3.06</b>	<b>2.81</b>

<sup>a</sup> Emissions [lb/day] = number x hours/day x emission factor [lb/hr]

**Construction Equipment Total Greenhouse Gas Emissions**

Equipment	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
Boom/Crane Truck	6.5	0.0	6.5
Wire Truck	19.8	0.0	19.8
Manlift/Bucket Truck	4.1	0.0	4.1
Puller	9.9	0.0	9.9
Static Truck/Tensioner	9.9	0.0	9.9
<b>Total</b>	<b>50.1</b>	<b>0.0</b>	<b>50.2</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x hours/day x Number x

days used x 453.6 [g/lb] / 1,000,000 [g/MT]

Emission factors are in Table 27

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action

Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

**Motor Vehicle Usage**

Vehicle	Number	Days Used	Hours Used/Day	Miles/Day/Veh.
<b>Onsite</b>				
1-Ton Truck, 4x4	2	8	N/A	3
Worker Commute	20	8	N/A	3
<b>Offsite</b>				
1-Ton Truck, 4x4	2	8	N/A	50
Worker Commute	20	8	N/A	50

SBCRP - Underground Options Emissions  
 Install Underground Cable

Motor Vehicle Exhaust Emission Factors

Vehicle	Category	VOC (lb/mi) <sup>a</sup>	CO (lb/mi) <sup>a</sup>	NOX (lb/mi) <sup>a</sup>	SOX (lb/mi) <sup>a</sup>	PM10 (lb/mi) <sup>a</sup>	PM2.5 (lb/mi) <sup>b</sup>	CO2 (lb/mi) <sup>a</sup>	CH4 (lb/mi) <sup>a</sup>
<b>Onsite</b>									
1-Ton Truck, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
<b>Offsite</b>									
1-Ton Truck, 4x4	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05

a From Table 28 or Table 29

SBCRP - Underground Options Emissions  
Install Underground Cable

**Motor Vehicle Daily Criteria Pollutant Exhaust Emissions**

Vehicle	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
<b>Onsite</b>						
1-Ton Truck, 4x4	0.00	0.04	0.00	0.00	0.00	0.00
Worker Commute	0.04	0.40	0.04	0.00	0.01	0.00
<b>Onsite Total</b>	<b>0.05</b>	<b>0.44</b>	<b>0.04</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>
<b>Offsite</b>						
1-Ton Truck, 4x4	0.07	0.66	0.07	0.00	0.01	0.01
Worker Commute	0.70	6.60	0.65	0.01	0.09	0.06
<b>Offsite Total</b>	<b>0.77</b>	<b>7.26</b>	<b>0.72</b>	<b>0.01</b>	<b>0.10</b>	<b>0.07</b>
<b>Total</b>	<b>0.82</b>	<b>7.70</b>	<b>0.76</b>	<b>0.01</b>	<b>0.11</b>	<b>0.07</b>

<sup>a</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

**Motor Vehicle Total Greenhouse Gas Emissions**

Vehicle	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
<b>Onsite</b>			
1-Ton Truck, 4x4	0.0	0.0	0.0
Worker Commute	0.0	0.0	0.0
<b>Onsite Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Offsite</b>			
1-Ton Truck, 4x4	0.4	0.0	0.4
Worker Commute	4.0	0.0	4.0
<b>Offsite Total</b>	<b>4.4</b>	<b>0.0</b>	<b>4.4</b>
<b>Total</b>	<b>4.4</b>	<b>0.0</b>	<b>4.4</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x miles/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]

Emission factors are in Table 28 and Table 29

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

**Motor Vehicle Fugitive Particulate Matter Emissions**

Vehicle	Number	Road Type	Miles/ Day/ Vehicle	PM10 Emission Factor (lb/mi) <sup>a</sup>	PM2.5 Emission Factor (lb/mi) <sup>a</sup>	PM10 Emissions (lb/day) <sup>b</sup>	PM2.5 Emissions (lb/day) <sup>b</sup>
<b>Onsite</b>							
1-Ton Truck, 4x4	2	Paved	3	0.001	0.000	0.01	0.00
Worker Commute	20	Paved	3	0.001	0.000	0.06	0.00
<b>Onsite Total</b>						<b>0.06</b>	<b>0.00</b>
<b>Offsite</b>							
1-Ton Truck, 4x4	2	Paved	50	0.001	0.000	0.09	0.00
Worker Commute	20	Paved	50	0.001	0.000	0.92	0.00
<b>Offsite Total</b>						<b>1.01</b>	<b>0.00</b>
<b>Total</b>						<b>1.08</b>	<b>0.00</b>

<sup>a</sup> From Table 30

<sup>b</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

**SBCRP - Underground Options Emissions  
Distribution Relocation - Cable and Civil**

**Emissions Summary**

Source	VOC (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO2e (MT)
Construction Equipment Exhaust	6.29	27.87	53.03	0.08	2.49	2.29	37.6
Onsite Motor Vehicle Exhaust	0.04	0.34	0.14	0.00	0.01	0.01	0.4
Onsite Motor Vehicle Fugitive PM	--	--	--	--	21.52	2.15	
Earthwork Fugitive PM	--	--	--	--	0.00	0.00	
<b>Onsite Total</b>	<b>6.33</b>	<b>28.21</b>	<b>53.18</b>	<b>0.08</b>	<b>24.02</b>	<b>4.45</b>	<b>38.0</b>
Offsite Motor Vehicle Exhaust	0.59	5.16	1.42	0.01	0.11	0.08	0.0
Offsite Motor Vehicle Fugitive PM	--	--	--	--	0.69	0.00	
<b>Offsite Total</b>	<b>0.59</b>	<b>5.16</b>	<b>1.42</b>	<b>0.01</b>	<b>0.80</b>	<b>0.08</b>	<b>0.0</b>
<b>Total</b>	<b>6.92</b>	<b>33.36</b>	<b>54.60</b>	<b>0.09</b>	<b>24.82</b>	<b>4.53</b>	<b>38.0</b>

Assumption: Distribution line relocation would be the same for Options C and D, with a total duration of 12 days.

**Construction Equipment Summary**

Equipment	Horse-power	Number	Days Used	Hours Used/Day
Reel Truck	300	2	12	10
Manlift/Bucket Truck	300	1	12	10
Rodder Truck	400	1	12	10
Backhoe Front Loader	125	1	12	10
Arrowboard Trailer	5	1	12	10

**Construction Equipment Exhaust Emission Factors**

Equipment	Horse-power	VOC (lb/hr) <sup>a</sup>	CO (lb/hr) <sup>a</sup>	NOX (lb/hr) <sup>a</sup>	SOX (lb/hr) <sup>a</sup>	PM10 (lb/hr) <sup>a</sup>	PM2.5 (lb/hr) <sup>b</sup>	CO2 (lb/hr) <sup>a</sup>	CH4 (lb/hr) <sup>a</sup>
Reel Truck	300	0.136	0.599	1.080	0.001	0.054	0.050	132.743	0.012
Manlift/Bucket Truck	300	0.111	0.444	1.384	0.002	0.041	0.037	212.856	0.010
Rodder Truck	400	0.136	0.599	1.080	0.001	0.054	0.050	132.743	0.012
Backhoe Front Loader	125	0.103	0.509	0.635	0.001	0.045	0.041	78.543	0.009
Arrowboard Trailer	5	0.007	0.038	0.045	0.000	0.002	0.002	6.170	0.001

<sup>a</sup> From Table 27

<sup>b</sup> Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction=

0.920

From Appendix A, Final-Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

[http://www.aqmd.gov/ceqa/handbook/PM2\\_5/PM2\\_5.html](http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html)

<sup>c</sup> All except SOx, PM2.5 and CO2 from Guidance on the Determination of Helicopter Emissions, Federal Department of the Environment, Transport, Energy and Communications, DETEC, Federal Office Civil Aviation FOCA, Division Aviation Policy and Strategy, Swiss Confederation, March 2009. Downloaded from <http://www.bazl.admin.ch/fachleute/01169/01174/01628/index.html?lang=en>

PM2.5 emissions assumed equal to PM10

SOx emissions [lb/hr] = Fuel use [kg/hr] x 1000 [g/kg] / 453.6 [g/lb] x Fuel sulfur [wt. %] / 100 x 2 [lb SO2/lbS]

Fuel use = 98.8 kg/hr from Guidance on the Determination of Helicopter Emissions

Fuel sulfur = 0.3% from ASTM D-1655 for Jet-A

CO2 emissions [lb/hr] = CO2 emission factor [kg/gal] x 1000 [g/kg] / 453.6 [g/lb] x Fuel use [kg/hr] x 1000 [g/kg] / 453.6 [g/lb] / Fuel density [lb/gal]

CO2 emission factor = 9.57 kg/gal from Table C.3 from California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008.

Downloaded from [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

Fuel use = 98.8 kg/hr from Guidance on the Determination of Helicopter Emissions

Jet-A density = 6.8 lb/gal

**Construction Equipment Daily Criteria Pollutant Exhaust Emissions**

Equipment	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
Reel Truck	2.72	11.97	21.59	0.03	1.08	0.99
Manlift/Bucket Truck	1.11	4.44	13.84	0.02	0.41	0.37
Rodder Truck	1.36	5.99	10.80	0.01	0.54	0.50
Backhoe Front Loader	1.03	5.09	6.35	0.01	0.45	0.41
Arrowboard Trailer	0.07	0.38	0.45	0.00	0.02	0.02
<b>Total</b>	<b>6.29</b>	<b>27.87</b>	<b>53.03</b>	<b>0.08</b>	<b>2.49</b>	<b>2.29</b>

<sup>a</sup> Emissions [lb/day] = number x hours/day x emission factor [lb/hr]

**SBCRP - Underground Options Emissions  
Distribution Relocation - Cable and Civil**

**Construction Equipment Total Greenhouse Gas Emissions**

<b>Equipment</b>	<b>CO<sub>2</sub> (MT)<sup>a</sup></b>	<b>CH<sub>4</sub> (MT)<sup>a</sup></b>	<b>CO<sub>2</sub>e (MT)<sup>b</sup></b>
Reel Truck	14.5	0.0	14.5
Manlift/ Bucket Truck	11.6	0.0	11.6
Rodder Truck	7.2	0.0	7.2
Backhoe Front Loader	4.3	0.0	4.3
Arrowboard Trailer	0.0	0.0	0.0
<b>Total</b>	<b>37.5</b>	<b>0.0</b>	<b>37.6</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x hours/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]  
Emission factors are in Table 27

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

**Motor Vehicle Usage**

<b>Vehicle</b>	<b>Number<sup>a</sup></b>	<b>Days Used</b>	<b>Hours Used/ Day</b>	<b>Miles/ Day/ Veh.</b>
<b>Onsite</b>				
Lowboy Truck/Trailer	1	12	N/A	3
1-Ton Truck, 4x4	1	12	N/A	3
Worker Commute	14	12	N/A	3
<b>Offsite</b>				
Lowboy Truck/Trailer	1	12	N/A	25
1-Ton Truck, 4x4	1	12	N/A	25
Worker Commute	14	12	N/A	50

SBCRP - Underground Options Emissions  
Distribution Relocation - Cable and Civil

Motor Vehicle Exhaust Emission Factors

Vehicle	Category	VOC (lb/mi) <sup>a</sup>	CO (lb/mi) <sup>a</sup>	NOX (lb/mi) <sup>a</sup>	SOX (lb/mi) <sup>a</sup>	PM10 (lb/mi) <sup>a</sup>	PM2.5 (lb/mi) <sup>b</sup>	CO2 (lb/mi) <sup>a</sup>	CH4 (lb/mi) <sup>a</sup>
<b>Onsite</b>									
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
1-Ton Truck, 4x4	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05
<b>Offsite</b>									
Lowboy Truck/Trailer	HHDT	2.02E-03	8.46E-03	2.42E-02	4.09E-05	1.18E-03	1.01E-03	4.21E+00	9.26E-05
1-Ton Truck, 4x4	Delivery	1.90E-03	1.28E-02	1.43E-02	2.75E-05	5.49E-04	4.55E-04	2.80E+00	8.80E-05
Worker Commute	Passenger	7.02E-04	6.60E-03	6.55E-04	1.07E-05	9.18E-05	5.94E-05	1.10E+00	6.31E-05

a From Table 28 or Table 29

Motor Vehicle Daily Criteria Pollutant Exhaust Emissions

Vehicle	VOC (lb/day) <sup>a</sup>	CO (lb/day) <sup>a</sup>	NOX (lb/day) <sup>a</sup>	SOX (lb/day) <sup>a</sup>	PM10 (lb/day) <sup>a</sup>	PM2.5 (lb/day) <sup>a</sup>
<b>Onsite</b>						
Lowboy Truck/Trailer	0.01	0.03	0.07	0.00	0.00	0.00
1-Ton Truck, 4x4	0.01	0.04	0.04	0.00	0.00	0.00
Worker Commute	0.03	0.28	0.03	0.00	0.00	0.00
<b>Onsite Total</b>	<b>0.04</b>	<b>0.34</b>	<b>0.14</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>
<b>Offsite</b>						
Lowboy Truck/Trailer	0.05	0.21	0.60	0.00	0.03	0.03
1-Ton Truck, 4x4	0.05	0.32	0.36	0.00	0.01	0.01
Worker Commute	0.49	4.62	0.46	0.01	0.06	0.04
<b>Offsite Total</b>	<b>0.59</b>	<b>5.16</b>	<b>1.42</b>	<b>0.01</b>	<b>0.11</b>	<b>0.08</b>
<b>Total</b>	<b>0.63</b>	<b>5.50</b>	<b>1.56</b>	<b>0.01</b>	<b>0.12</b>	<b>0.08</b>

<sup>a</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

Motor Vehicle Total Greenhouse Gas Emissions

Vehicle	CO2 (MT) <sup>a</sup>	CH4 (MT) <sup>a</sup>	CO2e (MT) <sup>b</sup>
<b>Onsite</b>			
Lowboy Truck/Trailer	0.1	0.0	0.1
1-Ton Truck, 4x4	0.0	0.0	0.0
Worker Commute	0.3	0.0	0.3
<b>Onsite Total</b>	<b>0.4</b>	<b>0.0</b>	<b>0.4</b>
<b>Offsite</b>			
Lowboy Truck/Trailer	0.6	0.0	0.0
1-Ton Truck, 4x4	0.4	0.0	0.0
Worker Commute	4.2	0.0	0.0
<b>Offsite Total</b>	<b>5.2</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>5.5</b>	<b>0.0</b>	<b>0.4</b>

<sup>a</sup> Emissions [metric tons, MT] = emission factor [lb/hr] x miles/day x Number x days used x 453.6 [g/lb] / 1,000,000 [g/MT]

Emission factors are in Table 28 and Table 29

<sup>b</sup> CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) emission factors are CO<sub>2</sub> emissions plus 21 x CH<sub>4</sub> emissions, based on Table C.1 from California Climate Action Registry General Reporting Protocol, Version 3.0, April 2008, [http://www.climateregistry.org/resources/docs/protocols/grp/GRP\\_V3\\_April2008\\_FINAL.pdf](http://www.climateregistry.org/resources/docs/protocols/grp/GRP_V3_April2008_FINAL.pdf)

SBCRP - Underground Options Emissions  
 Distribution Relocation - Cable and Civil

Motor Vehicle Fugitive Particulate Matter Emissions

Vehicle	Number	Road Type	Miles/ Day/ Vehicle	PM10 Emission Factor (lb/mi) <sup>a</sup>	PM2.5 Emission Factor (lb/mi) <sup>a</sup>	PM10 Emissions (lb/day) <sup>b</sup>	PM2.5 Emissions (lb/day) <sup>b</sup>
<b>Onsite</b>							
Lowboy Truck/Trailer	1	Unpaved	3	0.858	0.086	2.57	0.26
1-Ton Truck, 4x4	1	Unpaved	3	0.495	0.049	1.48	0.15
Worker Commute	14	Unpaved	3	0.416	0.042	17.46	1.75
<b>Onsite Total</b>						<b>21.52</b>	<b>2.15</b>
<b>Offsite</b>							
Lowboy Truck/Trailer	1	Paved	25	0.001	0.000	0.02	0.00
1-Ton Truck, 4x4	1	Paved	25	0.001	0.000	0.02	0.00
Worker Commute	14	Paved	50	0.001	0.000	0.65	0.00
<b>Offsite Total</b>						<b>0.69</b>	<b>0.00</b>
<b>Total</b>						<b>22.21</b>	<b>2.15</b>

<sup>a</sup> From Table 30

<sup>b</sup> Emissions [lb/day] = number x miles/day x emission factor [lb/mi]

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